

UNCLASSIFIED

# DEPARTMENT OF THE AIR FORCE



## PROCUREMENT PROGRAM

FISCAL YEARS 1998/1999  
BUDGET ESTIMATES

## PROCUREMENT OF AMMUNITION

19970314 013

FEBRUARY 1997

UNCLASSIFIED

DTIC QUALITY INSPECTED 1

ACLA

ACSL-1

DEPARTMENT OF THE AIR FORCE  
PROCUREMENT OF AMMUNITION APPROPRIATION ESTIMATES  
FOR FISCAL YEARS 1998-1999

Table of Contents

i  
iii  
iv  
v

Table of Contents  
Combating Terrorism Funding Summary  
Identification Codes and Glossary  
Program Exhibit P-1

Page No.

<u>P-1 Line No.</u>	<u>Item</u>	<u>Page No.</u>
1	2.75 Inch Rocket Motor	1
2	2.75" Rocket Head Signature	6
3	Items Less Than \$2,000,000 (Rockets & Launchers)	11
4	5.56 mm	12
6	30 mm Training	21
7	Cartridge Chaff RR-180	26
8	Cartridge Chaff RR-188	31
9	Signal MK-4 Mod 3	35
10	Items Less Than \$2,000,000 (Cartridges)	40
11	MK-82 Inert/BDU-50	42
13	GBU-28 Hard Target Penetrator	47
14	Bomb Practice 25 Pound	52
15	2000 lb HE Bomb MK-84	57
16	MK-84 Bomb Empty	62
17	Sensor Fuzed Weapon	67

DEPARTMENT OF THE AIR FORCE  
PROCUREMENT OF AMMUNITION APPROPRIATION ESTIMATES  
FOR FISCAL YEARS 1998-1999

Table of Contents

20	Joint Direct Attack Munition	72
21	Wind Corrected Munitions Dispenser	78
23	Items Less Than \$2,000,000 (Bombs)	83
25	ASTE (Infrared Expendable)	84
26	Flare, IR MJU-7B	92
27	Parachute Flare LUU-2 B/B	97
29	MJU-10B	102
30	M-206	107
31	CAD/PAD	112
33	Replenishment Spares	114
34	Modifications	116
35	Items Less Than \$2,000,000 (Other Items)	117
36	Joint Programmable Fuze (JPF)	119
37	Hard Target Smart Fuze	124
	<u>SMALL ARMS</u>	
38	M-16 A2 Rifle	129
39	9mm Compact Pistol	135
40	M-9 Pistol	140
41	Items Less Than \$2,000,000 (Small Arms)	145

## Combating Terrorism Funding Summary (Dollars In Millions)

APPN: Procurement of Ammunition, AF	FY 96	FY 97	FY 98	FY 99
BA: 1 Ammunition	11.7	8.7	9.3	13.0
352050 5.56MM				
352990 Items Less Than \$2M	6.8	6.7	7.6	9.1
355990 Items Less Than \$2M	1.7	0.9	1.5	3.8
	3.2	1.1	0.2	0.1
BA: 2 Small Arms	0.0	16.2	8.2	2.8
357120 M-16 A2 Rifle	0.0	15.5	6.0	2.8
357130 9MM Compact Pistol	0.0	0.1	0.2	0.0
357170 M-9 Pistol	0.0	0.0	1.1	0.0
357990 Items Less Than \$2M	0.0	0.6	0.9	0.0
Total Procurement of Ammunition, AF	11.7	24.9	17.5	15.8



## IDENTIFICATION CODES

Code "A" - Line items of material which have been approved for Air Force service use; i. e., line items which have been classified as standard or alternate.

Code "B" - Line items of material that have not been approved for Service use as defined in Code "A".

## GLOSSARY

### Contract Method

C - Competitive  
SS - Sole Source

### Contract Type

C/FP - Competitive/Fixed Price  
CPAF - Cost Plus Award Fee  
FFP - Firm Fixed Price  
FP - Fixed Price  
FPIF - Fixed Priced Incentive Fee  
C/FFP - Competitive Firm Fixed Price

### Contracted By

AFMC - Air Force Materiel Command, Wright-Patterson AFB, OH  
ASC - Aeronautical Systems Center, Wright - Patterson AFB, OH & Eglin AFB, FL  
OO-ALC - Ogden Air Logistics Center, Hill AFB, UT  
WR-ALC - Warner-Robins Air Logistics Center, Robins AFB, GA  
AMCCOM - See IOC  
IOC - Industrial Operations Command, Rock Island, IL  
NOC - Navy Ordnance Command, Mechanicsburg PA  
SPCC - See NOC

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE

FY 1998/1999 PROCUREMENT PROGRAM

SUMMARY  
(\$ IN MILLIONS)

FEB 1997

APPROPRIATION: PROCUREMENT OF AMMUNITION, AIR FORCE

ACTIVITY

- O1. PROCUREMENT OF AMMO, AIR FORCE
- O2. WEAPONS

TOTAL

	FY 1996	FY 1997	FY 1998	FY 1999
	-----	-----	-----	-----
	336.1	300.1	395.8	453.7
		16.2	8.2	2.8
	-----	-----	-----	-----
	336.1	316.3	404.0	456.5

\* ITEMS UNDER \$50,000

V

UNCLASSIFIED

## UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE  
FY 1998/1999 PROCUREMENT PROGRAM  
APPROPRIATION: 3011F PROCUREMENT OF AMMUNITION, AIR FORCE

EXHIBIT P-1

DATE: FEB 1997

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)		FY 1998		FY 1996		FY 1997		FY 1998		FY 1999	
			UNIT	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST		
BUDGET ACTIVITY 01: PROCUREMENT OF AMMO, AIR FORCE														
ROCKETS														
1	2.75 INCH ROCKET MOTOR	A	373	29964	10.4	25392	9.9	23718	8.9	36876	14.1	U		
2	2.75" ROCKET HEAD SIGNATURE	A	65	24280	2.0	25360	1.8	13940	.9	17164	1.2	U		
3	ITEMS LESS THAN \$2,000,000	A			1.6		1.3		.1					
CARTRIDGES														
4	5.56 MM	A	326	20058	6.8	17487	6.7	23273	7.6	27235	9.1	U		
5	20MM TRAINING	A				435	2.7					U		
6	30 MM TRAINING	A	8,373	623	7.0	408	3.2	3278	27.4	2496	18.7	U		
7	CARTRIDGE CHAFF RR-180	A	14,305	550	7.7			845	12.1	597	8.7	U		
8	CARTRIDGE CHAFF RR-188	A		523	1.2	507	1.2			896	2.2	U		
9	SIGNAL MK-4 MOD 3	A	1,882					596	1.1	697	1.3	U		
10	ITEMS LESS THAN \$2,000,000	A			6.3		4.3							
BOMBS														
11	MK-82 INERT/BDU-50	A	724	12930	8.2	12750	6.3	30672	22.2	36906	27.3	U		
12	TIMER ACTUATOR FIN FUZE	A		24032	4.3							U		
13	GBU-28 HARD TARGET PENETRATOR	A				161	18.4			152	17.4	U		

\* ITEMS UNDER \$50,000

VI

UNCLASSIFIED

PAGE F-12

## UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE  
FY 1998/1999 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3011F PROCUREMENT OF AMMUNITION, AIR FORCE

DATE: FEB 1997

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)		FY 1996		FY 1997		FY 1998		FY 1999		S
			UNIT COST	QUANTITY	UNIT COST	QUANTITY	UNIT COST	QUANTITY	UNIT COST	QUANTITY			
14	BOMB PRACTICE 25 POUND	A	14	399840	5.9	200000	2.9	397760	5.6	698400	10.1	U	
15	2000 LB HE BOMB MK-84	A											
16	MK-84 BOMB-EMPTY	A	2,496	2812	6.9	1500	3.5	994	2.5	3590	8.8	U	
17	SENSOR FUZED WEAPON	A	276,728	500	165.4	542	152.0	556	153.9	352	143.3	U	
18	CBU-87(COMBINED EFFECTS MUNITIONS)	A			21.1								
19	ITU-373A DIGITAL TEST SET	A				13	5.1					U	
20	JOINT DIRECT ATTACK MUNITION	A	22,935			937	23.0	2673	61.3	2620	62.2	U	
21	WIND CORRECTED MUNITIONS DISPENSER	A	70,967					280	19.9	779	30.1	U	
22	CBU-89 GATOR INERT	A		336	9.5							U	
23	ITEMS LESS THAN \$2,000,000	A			2.9		.1		.2			U	
24	ITEMS LESS THAN \$2,000,000	A					.1					U	
25	ASTE (INFRARED EXPENDABLE)	A											
26	FLARE, IR MJU-7B	A								21402	3.0	U	
27	PARACHUTE FLARE LUU-2 B/B	A	22	943380	21.9	899640	20.0	662280	14.7	862680	19.5	U	
28	MJU-23 FLARE	B		9600	6.0					1472	.8	U	

\* ITEMS UNDER \$50,000

UNCLASSIFIED  
vii

PAGE F-13

## UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE  
FY 1998/1999 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3011F PROCUREMENT OF AMMUNITION, AIR FORCE

DATE: FEB 1997

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)		FY 1996		FY 1997		FY 1998		FY 1999		MILLIONS OF DOLLARS
			UNIT COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST		
29	MJU-10B	A	60	110280	7.2	214584	12.7	190824	11.5	199440	12.2	U	
30	M-206 CARTRIDGE FLARE	A	15	331000	11.3	1045000	12.8	1099600	17.5	798000	13.0	U	
31	CAD/PAD	A							12.8		14.6	U	
32	INITIAL SPARES	A			.6		*					U	
33	REPLENISHMENT SPARES	A			1.1		1.6		1.0		1.5	U	
34	MODIFICATIONS	A			3.3		.7		.1			U	
35	ITEMS LESS THAN \$2,000,000	A			17.3		3.8		4.6		5.7	U	
FUZES													
36	JOINT PROGRAMMABLE FUSE(JPF)	B			5,025								
37	HARD TARGET SMART FUZE	A				324	4.1	1170	5.9	1906	8.1	U	
TOTAL PROCUREMENT OF AMMO, AIR FORCE													
BUDGET ACTIVITY 02: WEAPONS													
-----													
SMALL ARMS													
38	M-16 A2 RIFLE	A				50	2.0			235	7.9	U	
39	9MM COMPACT PISTOL	A										U	
40	M-9 PISTOL	A										U	
-----													
336.1													
300.1													
395.8													
453.7													
-----													
6.0													
.2													
1.1													

\* ITEMS UNDER \$50,000

VII

UNCLASSIFIED

PAGE F-14

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE  
FY 1998/1999 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3011F PROCUREMENT OF AMMUNITION, AIR FORCE

DATE: FEB 1997

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)		FY 1998		FY 1996		FY 1997		FY 1998		FY 1999		FY 1999		S E C
			UNIT	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
41	ITEMS LESS THAN \$2M	A															
TOTAL	WEAPONS							.6								.9	* U
TOTAL	PROCUREMENT OF AMMUNITION, AIR FORCE							16.2								8.2	2.8
						336.1		316.3								404.0	456.5

\* ITEMS UNDER \$50,000

IX

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE	
APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT		P-1 ITEM NOMENCLATURE 2.75 INCH ROCKET MOTOR						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	29,964	25,392	23,718	36,876	33,928	34,068	34,366	42,058
COST (in Millions)	\$10.404	\$9.941	\$8.856	\$14.056	\$14.413	\$14.812	\$15.291	\$19.146
REMARKS								
<p>1. THIS IS A 2.75 INCH DIAMETER ROCKET WITH FOLDING FINS USED WITH HIGH EXPLOSIVE, WHITE PHOSPHOROUS, OR TARGET PRACTICE WARHEADS. THE ROCKETS CAN BE FIRED FROM HIGH OR LOW SPEED AIRCRAFT. IN THE AIR FORCE, THE 2.75 INCH ROCKET IS USED PRIMARILY TO MARK TARGET LOCATIONS FOR OTHER AIRCRAFT. ROCKETS ARE LAUNCHED FROM REUSABLE PODS CARRIED ON AIRCRAFT PYLONS AND ARE THE PRIMARY TARGET MARKING MUNITION USED BY FORWARD AIR CONTROL AIRCRAFT. THREE VERSIONS OF THE 2.75 INCH ROCKET MOTOR ARE IN USE : MK 4, MK 40 AND MK 66. ONLY THE MK 66 IS IN PRODUCTION.</p> <p>2. THIS ITEM IS PROCURED BY THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION. COST IS BASED ON CONVENTIONAL AMMUNITION WORKING CAPITAL FUND (CAWCF) STANDARD PRICING.</p>								
P-1 SHOPP LIST ITEM NO.			PAGE NO.					
1			1					

UNCLASSIFIED

UNCLASSIFIED

AMMUNITION COST ANALYSIS												
(DOLLARS IN THOUSANDS)												
APPROPRIATION AND P-1 LINE ITEM												
2.75 INCH ROCKET MOTOR												
DATE: FEBRUARY 1997												
PAAF												
ELEMENT OF COST												
FY96												
FY97												
FY98												
FY99												
FEBRUARY 1997												
QTY: 23,718 QTY: 36,876												
UNIT COST												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												
TOTAL												

UNCLASSIFIED



# UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE					A. DATE	
PAAF/MUNITIONS AND RELATED EQUIPMENT					2.75 INCH ROCKET MOTOR					FEBRUARY 1997	
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

### 2.75 INCH ROCKET MOTOR

FY 1996#	LOCKHEED MARTIN	C/FP	ARMY/AMCCOM (AFMC/OO-ALC)	SEP 96	OCT 97	29964	347.21			
FY 1997	LOCKHEED MARTIN	C/FP (OPTION)	ARMY/AMCCOM (AFMC/OO-ALC)	APR 97	OCT 98	25392	391.49	YES	NO	
FY 1998	UNKNOWN	C/FP	ARMY/AMCCOM (AFMC/OO-ALC)	APR 98	OCT 99	23718	373.33	YES	NO	
FY 1999	UNKNOWN	C/FP	ARMY/AMCCOM (AFMC/OO-ALC)	APR 99	OCT 00	36876	381.15	YES	NO	

### D. REMARKS

# FY 96 CONTRACT AWARD WAS DELAYED DUE TO CONTRACT DISPUTE. LOCKHEED MARTIN IS IN BURLINGTON, VT

P-1 SHOPP LIST ITEM NO. 1		PAGE NO. 3	Exhibit P-5A
------------------------------	--	------------	--------------

# UNCLASSIFIED

**UNCLASSIFIED**

[illegible]

UNCLASSIFIED



UNCLASSIFIED

# BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)

DATE  
FEBRUARY 1997

APPROPRIATION/BUDGET ACTIVITY  
PAAF/MUNITIONS AND RELATED EQUIPMENT

P-1 ITEM NOMENCLATURE  
2.75" ROCKET HEAD SIGNATURE

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	24,280	25,360	13,940	17,164	17,780	17,851	18,007	22,033
COST (in Millions)	\$1,993	\$1,780	\$0,919	\$1,155	\$1,393	\$1,432	\$1,478	\$1,850

## REMARKS

1. THE 2.75 INCH DIAMETER WARHEAD IS USED WITH 2.75 INCH ROCKET MOTORS FOR TRAINING AND TO SUPPORT TESTING PURPOSES. THIS WARHEAD IS A MODIFIED VERSION OF THE CAST IRON INERT PRACTICE WARHEAD CURRENTLY IN USE. THE MODIFICATION CONSISTS OF THE ADDITION OF A SEALED SAFETY AND ARMING DEVICE, SMOKE CARTRIDGE, NOSE CAP, FIRING PIN, RETAINING RING, AND BLOW PLUGS. ENVIRONMENTAL PROBLEMS WITH WHITE PHOSPHOROUS (WP) CREATED THE REQUIREMENT FOR A NEW WARHEAD. IT REALISTICALLY SIMULATES THE WP IMPACT/MARKING CHARACTERISTICS TO PROVIDE ACCURATE SCORING AND OBSERVATION OF IMPACT.

2. THIS ITEM IS PROCURED BY THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION. COST IS BASED ON CONVENTIONAL AMMUNITION WORKING CAPITAL FUND (CAWCF) STANDARD PRICING.

P-1 SHOPP LIST ITEM NO. 2	PAGE NO. 6
---------------------------------	---------------

UNCLASSIFIED

UNCLASSIFIED

## AMMUNITION COST ANALYSIS

(DOLLARS IN THOUSANDS)

AMMUNITION COST ANALYSIS														
(DOLLARS IN THOUSANDS)														
APPROPRIATION AND P-1 LINE ITEM										DATE: FEBRUARY 1997				
2.75" ROCKET HEAD SIGNATURE														
PAAF ELEMENT OF COST														
IDENT CODE	FY96 QTY	UNIT COST	TOTAL	FY97 QTY	UNIT COST	TOTAL	FY98 QTY	UNIT COST	TOTAL	FY99 QTY	UNIT COST	TOTAL		
A	24280	\$64.48	\$1,566	25360	\$57.12	\$1,449	13940	\$56.88	\$793	17164	\$58.07	\$997		
			\$1,566			\$1,449			\$793			\$997		
									\$81			\$102		
			\$49			\$66			\$2			\$2		
			\$2			\$16			\$9			\$11		
			\$18			\$14			\$6			\$7		
			\$6			\$57			\$28			\$36		
			\$66			\$176			\$0			\$0		
			\$286											

UNCLASSIFIED

## UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE					A. DATE		
PAAF/MUNITIONS AND RELATED EQUIPMENT					2.75" ROCKET HEAD SIGNATURE					FEBRUARY 1997		
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		

## 2.75 INCH ROCKET HEAD SIGNATURE

FY 1996@	LOCKHEED MARTIN	C/FP (OPTION)	ARMY/AMCCOM (AFMC/OO-ALC)	SEP 96	SEP 97	24280	82.08				
FY 1997	LOCKHEED MARTIN	C/FP (OPTION)	ARMY/AMCCOM (AFMC/OO-ALC)	MAR 97	SEP 98	25360	70.18	YES	NO		
FY 1998	UNKNOWN	C/FP	ARMY/AMCCOM (AFMC/OO-ALC)	MAR 98	SEP 99	13940	65.91	YES	NO		
FY 1999	UNKNOWN	C/FP	ARMY/AMCCOM (AFMC/OO-ALC)	MAR 99	SEP 00	17164	67.29	YES	NO		

## D. REMARKS

@ LOCKHEED MARTIN IS LOCATED IN BURLINGTON, VT

P-1 SHOPP LIST ITEM NO. 2	PAGE NO. 8
---------------------------------	---------------

Exhibit P-5A

UNCLASSIFIED

**UNCLASSIFIED**

[illegible]

**UNCLASSIFIED**



**UNCLASSIFIED**

[illegible]

**UNCLASSIFIED**



UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE	
APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT		P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2,000,000 (ROCKETS AND LAUNCHERS)						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Millions)	\$1.627	\$1.334	\$0.050	\$0.050	\$0.934	\$0.925	\$0.927	\$0.928
REMARKS								
<p>THIS CATEGORY CONSISTS OF ROCKET LAUNCHERS, METEOROLOGICAL ROCKETS FOR GATHERING WEATHER DATA, AND VARIOUS ROCKET AND LAUNCHER COMPONENTS. THE AMOUNT BUDGETED IN FY98/99 IS TO SATISFY UNFORESEEN REQUIREMENTS SUCH AS THE 2.75 INCH INFRARED WARHEADS IN SUPPORT OF EMERGENCY CONTINGENCIES.</p>								
		P-1 SHOPP LIST ITEM NO. 3		PAGE NO. 11				

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT		P-1 ITEM NOMENCLATURE 5.56 MM						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	20,058	17,487	23,273	27,235	19,034	19,034	19,034	19,034
COST (In Thousands)	\$6,821	\$6,714	\$7,590	\$9,050	\$7,501	\$7,683	\$7,863	\$8,045
REMARKS								
<p>1. THIS CARTRIDGE IS USED IN THE M-16 RIFLE AND THE SQUAD AUTOMATIC WEAPON (SAW). THE M-16 IS USED BY ALL PERSONNEL REQUIRED TO BE ARMED TO DEFEND AIR FORCE RESOURCES FROM ATTACK OR TO REPEL TERRORISTS. THE SAW HAS THE SAME BASIC MISSION BUT HAS A HIGHER RATE OF FIRE. FORCES SUPPORTED ARE PRIMARILY SECURITY AND AIR BASE DEFENSE PERSONNEL. TOTAL REQUIREMENTS INCLUDE WAR RESERVE STOCKS, ANNUAL REQUALIFICATION TRAINING REQUIREMENTS, INITIAL TRAINING ALLOWANCES AND A PIPELINE STOCK LEVEL TO MAINTAIN DELIVERY FLOW TO INDIVIDUAL UNITS.</p> <p>2. THE FY 98 AND FY 99 PROGRAMS ARE FOR 5.56MM BALL (A071) AND 5.56MM BLANK M200 (A080) USED WITH THE M-16 RIFLE, AND 5.56MM BALL LINKED (A062) AND 5.56MM LINKED BALL AND TRACER (A064) USED WITH THE SAW.</p> <p>3. THESE ITEMS ARE PROCURED BY THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION. COST IS BASED ON CONVENTIONAL AMMUNITION WORKING CAPITAL WORKING FUND (CAWCF) STANDARD PRICING.</p>								
P-1 SHOPP LIST ITEM NO. 4			PAGE NO. 12					

UNCLASSIFIED



UNCLASSIFIED

AMMUNITION COST ANALYSIS  
(DOLLARS IN THOUSANDS)

AMMUNITION COST ANALYSIS											
(DOLLARS IN THOUSANDS)											
DATE: FEBRUARY 1997											
5.56MM											
APPROPRIATION AND P-1 LINE ITEM											
PAAF											
ELEMENT OF COST											
IDENT CODE											
FY96											
FY97											
FY98											
FY99											
TOTAL											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
QTY											
UNIT COST											
Q											

UNCLASSIFIED

**AMMUNITION COST ANALYSIS**

EXHIBIT P-5  
PAGE 3 OF 4

**UNCLASSIFIED**

UNCLASSIFIED

## AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)

AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)													
APPROPRIATION AND P-1 LINE ITEM					DATE: FEBRUARY 1997								
PAAF					5.56MM								
ELEMENT OF COST	IDENT CODE	FY96	FY97	FY98	FY99	FY96		FY97		FY98		FY99	
		QTY	QTY	QTY	QTY	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
A													
HARDWARE													
5.56MM BLANK, M200(A080)													
LOAD, ASSEMBLE & PACK (LAP)													
BOX METAL M2A1													
PROPELLANT WC814 (LB)													
SUBTOTAL													
PRODUCTION SUPPORT													
PRODUCTION ENGINEERING													
QUALITY ASSURANCE													
ACCEPTANCE TESTING													
INTERIM TRANSPORTATION													
INDUSTRIAL STOCK SUPPORT													
CAWCF GAIN/LOSS SURCHARGE													
SUBTOTAL													
TOTAL 5.56MM BLANK(A080)													
TOTAL P-1 LINE ITEM													
</													

UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)						A. DATE FEBRUARY 1997				
B. APPROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE							
PAAF/MUNITIONS AND RELATED EQUIPMENT			5.56MM							
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

## 5.56MM BALL, M855 LINKED(A062)

FY 1995

FY 1998

FY 1999

## 5.56MM BALL TRACER FOR SAW (A064)

FY 1996

FY 1997

FY 1998

FY 1999

\*\*\*CONTINUED ON NEXT PAGE \*\*\*

OLIN/LCAAP	SS/CPAF	ARMY/AMCCOM (AFMC/OO-ALC)	APR 95	OCT 95	3412800	.46				
OLIN/LCAAP	SS/CPAF	ARMY/AMCCOM (AFMC/OO-ALC)	MAR 98	OCT 98	1392000	.45		YES	NO	
OLIN/LCAAP	SS/CPAF	ARMY/AMCCOM (AFMC/OO-ALC)	MAR 99	OCT 99	1990400	.46		YES	NO	
OLIN/LCAAP	SS/CPAF	ARMY/AMCCOM (AFMC/OO-ALC)	MAR 96	MAR 97	1059200	.52				
OLIN/LCAAP	SS/CPAF	ARMY/AMCCOM (AFMC/OO-ALC)	MAR 97	OCT 97	3488000	.52		YES	NO	
OLIN/LCAAP	SS/CPAF	ARMY/AMCCOM (AFMC/OO-ALC)	MAR 98	OCT 98	995200	.49		YES	NO	
OLIN/LCAAP	SS/CPAF	ARMY/AMCCOM (AFMC/OO-ALC)	MAR 99	OCT 99	1683200	.50		YES	NO	

## D. REMARKS

OLIN CORPORATION IS PRODUCING THESE ITEMS AT LAKE CITY ARMY AMMUNITION PLANT, INDEPENDENCE, MO.

Exhibit P-5A  
PAGE 1 OF 2

PAGE NO.

P-1 SHOPP LIST  
ITEM NO. 4

# UNCLASSIFIED

## UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)						A. DATE FEBRUARY 1997				
B. APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT			C. P-1 ITEM NOMENCLATURE 5.56MM (CONTINUED)							
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

## 5.56MM BALL (A071)

FY 1996

OLIN/LCAAP

SS/CPAF

ARMY/AMCCOM  
(AFMC/OO-ALC)

MAR 96

OCT 96

18999120

.33

FY 1997

OLIN/LCAAP

SS/CPAF

ARMY/AMCCOM  
(AFMC/OO-ALC)

MAR 97

OCT 97

13999440

.35

FY 1998

OLIN/LCAAP

SS/CPAF

ARMY/AMCCOM  
(AFMC/OO-ALC)

MAR 98

OCT 98

20885760

.31

FY 1999

OLIN/LCAAP

SS/CPAF

ARMY/AMCCOM  
(AFMC/OO-ALC)

MAR 99

OCT 99

21077280

.32

## 5.56MM BLANK, M200 (A080)

FY 1993

OLIN/LCAAP

SS/CPAF

ARMY/AMCCOM  
(AFMC/OO-ALC)

MAR 93

OCT 93

11352120

.17

FY 1999

OLIN/LCAAP

SS/CPAF

ARMY/AMCCOM  
(AFMC/OO-ALC)

MAR 99

OCT 99

2485200

.22

NO

YES

NO

YES

NO

YES

## D. REMARKS

OLIN CORPORATION IS PRODUCING THESE ITEMS AT LAKE CITY ARMY AMMUNITION PLANT, INDEPENDENCE, MO.

Exhibit P-5A  
PAGE 2 OF 2P-1 SHOPP LIST  
ITEM NO. 4

PAGE NO. 18

UNCLASSIFIED



UNCLASSIFIED

FY9900 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE: 5.56MM										DATE: FEBRUARY 1997																					
ITEM/MFG PROCUREMENT YEAR		S E R V	PROC QTY	ACQ PRIOR	BAL DUE	FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99											
		1-Q4	1-Q4	1-Q4	1-Q4	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP												
5.56MM BALL M855 LINKED (A062)																																									
OLIN/LCAAP	FY98	AF	1.4	0	1.4																																				
OLIN/LCAAP	FY99	AF	2.0	0	2.0																																				
5.5MM BALL TRACER SAW (A064)																																									
OLIN/LCAPP	FY96	AF	1.1	0	1.1																																				
OLIN/LCAPP	FY97	AF	3.5	0	3.5																																				
OLIN/LCAPP	FY98	AF	1.0	0	1.0																																				
OLIN/LCAPP	FY99	AF	1.7	0	1.7																																				
5.56MM BALL (A071)																																									
OLIN/LCAAP	FY96	AF	19.0	2.0	17.0																																				
OLIN/LCAAP	FY97	AF	14.0	0	14.0																																				
OLIN/LCAAP	FY98	AF	20.9	0	20.9																																				
OLIN/LCAAP	FY99	AF	21.1	0	21.1																																				
5.56MM BLANK (A080)																																									
OLIN/LCAPP	FY99	AF	2.5	0	2.5																																				
TOTAL			88.2	2.0	86.2																																				
MANUFACTURERS NAME AND LOCATION		PROD RATES		REA-		PROCUREMENT LEAD TIME												REMARKS: LCAAP = LAKE CITY ARMY AMMUNITION PLANT. QUANTITY IN MILLIONS.																							
OLIN/LCAAP, A080 INDEPENDENCE, MO.		MIN 1-8-5 MAX		CH 0+		ADMIN LEAD TIME				MANUFACTURING				TOTAL AFTER																											
		0 21.2 66.3				PR 1 OCT				TIME				1 OCT																											
		0 11.5 39.3				6 6				7 7				13 13																											
A062		0 15.08 52.1				6 6				7 7				13 13																											
A071		0 20.9 72.8																																							

UNCLASSIFIED

**UNCLASSIFIED**

[illegible]

**UNCLASSIFIED**

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT		P-1 ITEM NOMENCLATURE 30 MM TRAINING						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY (In Thousands)	623	408	3,728	2,496	2,160	2,170	2,188	2,507
COST (In Millions)	\$7.000	\$3.160	\$27.447	\$18.743	\$17.837	\$18.325	\$18.918	\$22.172
REMARKS								
<p>1. THIS CARTRIDGE IS A 30MM ROUND WITH A SOLID, INERT PROJECTILE USED TO TRAIN AIRCREWS IN THE USE OF THE GAU-8/A CANNON ON THE A-10 AIRCRAFT AND THE GPU-5/A 30MM GUN POD ON THE F-16 AIRCRAFT. THE CARTRIDGE IS MECHANICALLY PRIMED AND HAS NO FUZE, WHILE THE PROJECTILE IS A SOLID SLUG DESIGNED TO MATCH THE BALLISTICS OF HIGH EXPLOSIVE INCENDIARY (HEI) AND ARMOR PIERCING INCENDIARY (API) CARTRIDGES.</p> <p>2. THIS ITEM IS PROCURED BY THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION. COST IS BASED ON CONVENTIONAL AMMUNITION WORKING CAPITAL FUND (CAWCF) STANDARD PRICING.</p> <p>3. FY 98 QUANTITY DIFFERS FROM P-1 ENTRY DUE TO UPDATED COST ESTIMATES.</p>								
P-1 SHOPP LIST ITEM NO. 6			PAGE NO. 21					

UNCLASSIFIED

### AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)

**UNCLASSIFIED**

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)						A. DATE FEBRUARY 1997				
B. APPROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE							
PAAF/MUNITIONS AND RELATED EQUIPMENT			30MM TRAINING							
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

30MM TRAINING										
FY 1996	ALLIANT@	C/FP OPTION	ARMY/AMCCOM (AFMC/OO-ALC)	APR 96	MAR 97	623300	11.23			
FY 1997	UNKNOWN	C/FP	ARMY/AMCCOM (AFMC/OO-ALC)	MAR 97	MAR 98	408250	7.73	YES	NO	
FY 1998	UNKNOWN	C/FP	ARMY/AMCCOM (AFMC/OO-ALC)	MAR 98	MAR 99	3728300	7.36	YES	NO	
FY 1999	UNKNOWN	C/FP	ARMY/AMCCOM (AFMC/OO-ALC)	MAR 99	MAR 00	2495500	7.51	YES	NO	

D. REMARKS @ ALLIANT TECH SYSTEMS INC. IS LOCATED IN JOLIET, IL.		
P-1 SHOPP LIST ITEM NO. 6	PAGE NO. 23	Exhibit P-5A

# UNCLASSIFIED

**UNCLASSIFIED**

[illegible]

**UNCLASSIFIED**

PAGE 1 OF 2 PAGE  
EXHIBIT P-21

24



UNCLASSIFIED

FY9800 BUDGET PRODUCTION SCHEDULE		P-1 ITEM NOMENCLATURE: 30MM TRAINING		DATE: FEBRUARY 1997			
ITEM/MFG PROCUREMENT YEAR		FISCAL YEAR 00		FISCAL YEAR 01		FISCAL YEAR 02	
S E R V		PROC QTY		ACPT PRIOR		BAL DUE	
FY96 AF		0.62		0.62		0	
UNKNOWN FY97 AF		0.41		0.41		0	
UNKNOWN FY98 AF		3.73		2.18		1.55	
UNKNOWN FY99 AF		2.50		0		2.50	
TOTAL		7.26		3.21		4.05	
MANUFACTURER'S NAME AND LOCATION		PROD RATES		REA-		OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP	
ALLIANT TECH JOLIET IL		MIN 0.15		1-8-5 MAX 0.38 0.70		CH 0+ 0	
		INITIAL		6		12	
		REORDER		4		12	
		TOTAL AFTER 1 OCT		18		16	
		P-1 SHOPPING LIST ITEM NO. 6		PAGE NO. 25		PAGE 2 OF 2 PAGES EXHIBIT P-21	

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT			P-1 ITEM NOMENCLATURE CARTRIDGE CHAFF RR-180					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY (In Thousands)	550	0	845	597	801	802	668	821
COST (In Millions)	\$7.687	\$0	\$12.088	\$8.734	\$11.885	\$12.169	\$10.379	\$13.060
REMARKS								
<p>1. THE RR-180 CHAFF CARTRIDGE PROVIDES AIRBORNE COUNTERMEASURE CAPABILITY TO DISPENSE MULTIPLE FREQUENCY REFLECTING DIPOLES FOR THE PURPOSE OF INTERRUPTING THE TRACKING OF THE FLIGHT PATH BY RADAR EQUIPMENT. THE CHAFF CARTRIDGE FITS INTO A MULTIPLE CARTRIDGE MAGAZINE (MJU-11) WHICH IS INSTALLED IN AN AN/ALE-45 CHAFF FLARE DISPENSING SYSTEM ON THE F-15 AND IN AN AN/ALE-40 DISPENSING SYSTEM ON THE A-10, F-111, F-16, C-130 AND C-5 AIRCRAFT. THE RR-180 IS DISPENSED FROM THE MAGAZINE WITH A BBU-48 CARTRIDGE.</p> <p>2. THE CHAFF CARTRIDGE CONSISTS OF A TWO-CHAMBER SQUARE PLASTIC TUBE CONTAINING A RECEPTACLE FOR AN IMPULSE CARTRIDGE (BBU-48), TWO PISTONS, TWO CHAMBERS WITH DIPOLES, AND TWO RUBBER END CAPS, EACH SECURED WITH TWO END CAP LUGS.</p>								
P-1 SHOPP LIST ITEM NO. 7			PAGE NO. 26					

UNCLASSIFIED





# UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

A. DATE  
FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE						
PAAF/MUNITIONS AND RELATED EQUIPMENT				CARTRIDGE CHAFF RR-180						
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

### CARTRIDGE CHAFF RR-180

FY 1996

TRACOR \*

C/FP

NAVY/NOC  
(AFMC/OO-ALC)

SEP 96

JUL 97

549960

6.44

NO

FY 1998

UNKNOWN

C/FP

NAVY/NOC  
(AFMC/OO-ALC)

AUG 98

MAY 99

844723

6.73

YES

FY 1999

UNKNOWN

C/FP

NAVY/NOC  
(AFMC/OO-ALC)

AUG 99

MAY 00

596584

6.89

YES

### IMPULSE CART BBU-48

FY 1996@

QUANTIC #

C/FP

AFMC/OO-ALC

SEP 96

MAY 97

338976

7.25

FY 1996@

CAPCO \$

C/FP

AFMC/OO-ALC

SEP 96

AUG 97

225984

6.58

FY 1998

UNKNOWN

C/FP

AFMC/OO-ALC

SEP 98

JAN 99

844723

7.58

YES

FY 1999

UNKNOWN

C/FP

AFMC/OO-ALC

SEP 99

JAN 00

596584

7.75

YES

### D. REMARKS

\* TRACOR IS LOCATED IN LILLINGTON, NC.  
@ FY 95 AND FY 96 PROCUREMENTS WERE COMBINED AND AWARDED IN A 60/40 SPLIT BETWEEN TWO CONTRACTORS.  
# QUANTIC IS LOCATED IN HOLLISTER, CA.  
\$ CAPCO IS LOCATED IN GRAND JUNCTION, CO.

P-1 SHOPP LIST ITEM NO.		PAGE NO.	Exhibit P-5A	
7		28		

# UNCLASSIFIED

**UNCLASSIFIED**

[illegible]

**UNCLASSIFIED**

[illegible]

**UNCLASSIFIED**

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT				P-1 ITEM NOMENCLATURE CARTRIDGE CHAFF RR-188				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	
QUANTITY (In Thousands)	523	507	0	896	1797	1805	1820	
COST (In Millions)	\$1.192	\$1.191	\$0	\$2.186	\$4.481	\$4.608	\$4.756	
<b>REMARKS</b> 1. THE RR-188 CHAFF CARTRIDGE CONTAINS A PAYLOAD OF CHAFF WHICH CAN BE DISPENSED DURING FLIGHT FOR TRAINING REQUIREMENTS. THE FUNCTIONAL CHARACTERISTICS ARE SIMILAR TO THE RR-170 AND RR-180 CHAFF COUNTERMEASURES CARTRIDGES. LIKE THE COMBAT CHAFF CARTRIDGES, THE RR-188 CARTRIDGE FITS INTO A MULTIPLE CARTRIDGE MAGAZINE (MJU-11 OR MJU-15), WHICH CAN BE INSTALLED IN ANY OF THE ALE-40 SERIES FLARE/CHAFF DISPENSING SYSTEMS ON SEVERAL TYPES OF AIRCRAFT. HOWEVER, USE OF RR-170 AND RR-180 CHAFF IS SEVERELY LIMITED BY FAA REGULATIONS DUE TO INTERFERENCE WITH AIR TRAFFIC CONTROL RADAR. BECAUSE THE RR-188 PAYLOAD DOES NOT INTERFERE WITH AIR TRAFFIC CONTROL RADAR, IT PROVIDES THE ALTERNATIVE NECESSARY FOR REALISTIC COMBAT AIRCREW TRAINING.  2. THE RR-188 CHAFF CARTRIDGE CONSISTS OF A SQUARE PLASTIC TUBE APPROXIMATELY .97 INCHES IN WIDTH, .97 INCHES IN HEIGHT, AND 8.145 INCHES LONG WITH A RECEPTACLE FOR AN IMPULSE CARTRIDGE, (BBU-35/B), PLASTIC PISTON, CHAFF DIPOLE PAYLOAD, AND A PLASTIC END CAP. CHAFF CARTRIDGES CONTAIN NO EXPLOSIVE OR INCENDIARY COMPONENTS WHEN THE IMPULSE CARTRIDGE IS NOT INSTALLED.								
P-1 SHOPP LIST ITEM NO. 8			PAGE NO. 51					

UNCLASSIFIED

## UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY						C. P-1 ITEM NOMENCLATURE				A. DATE	
PAAF/MUNITIONS AND RELATED EQUIPMENT						CARTRIDGE CHAFF RR-188				FEBRUARY 1997	
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

## CARTRIDGE CHAFF RR-188

FY 1996 @	TRACOR	C/FP (OPTION)	NAVY/SPCC (AFMC/OO-ALC)	MAR 96	JAN 97	522720	2.28			
FY 1997	UNKNOWN	C/FP	NAVY/SPCC (AFMC/OO-ALC)	MAR 97	JAN 98	506760	2.35	YES	NO	
FY 1999	UNKNOWN	C/FP	NAVY/SPCC (AFMC/OO-ALC)	MAR 99	JAN 00	895901	2.44	YES	NO	

## D. REMARKS

@ TRACOR IS LOCATED IN LILLINGTON, NC.

P-1 SHOPP LIST  
ITEM NO.  
6PAGE NO.  
52

Exhibit P-5A

UNCLASSIFIED



**UNCLASSIFIED**

[illegible]

**UNCLASSIFIED**

**UNCLASSIFIED**

[illegible]

UNCLASSIFIED

PAGE 2 OF 2 PAGES  
EXHIBIT P-21

45



# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT		P-1 ITEM NOMENCLATURE SIGNAL MK-4 MOD 3						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY (in Thousands)	0	0	596	697	561	563	568	695
COST (in Millions)	\$0	\$0	\$1.122	\$1.318	\$0.987	\$1.014	\$1.046	\$1.310
REMARKS								
<p>1. THE MK 4 MOD 3 SIGNAL CARTRIDGE IS USED WITH THE BDU-33, MK-106, AND BDU-48 PRACTICE BOMBS FOR OBSERVATION AND SCORING PURPOSES. THE SIGNAL CARTRIDGE HAS AN ALUMINUM CASE AND IS SIMILAR TO A 10 GAUGE SHOTGUN SHELL. IT CONTAINS AN EXPLOSIVE CHARGE OF SMOKELESS POWDER AND A COMMERCIAL SHOTGUN SHELL PRIMER. A PYROTECHNIC MARKER LOAD OF STABILIZED RED PHOSPHOROUS PROVIDES THE VISIBLE INDICATION FOR BOMB SCORING.</p> <p>2. THIS ITEM IS PROCURED BY THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION. COST IS BASED ON CONVENTIONAL AMMUNITION WORKING CAPITAL FUND (CAWCF) STANDARD PRICING.</p>								
P-1 SHOPP LIST ITEM NO. 9			PAGE NO. 35					

UNCLASSIFIED

UNCLASSIFIED

AMMUNITION COST ANALYSIS  
(DOLLARS IN THOUSANDS)

APPROPRIATION AND P-1 LINE ITEM										DATE: FEBRUARY 1997			
PAAF													
ELEMENT OF COST										SIGNAL MK-4 MOD 3			
IDENT CODE	FY96		FY97		FY98		FY99		FEBRUARY 1997				
	QTY	UNIT COST	TOTAL	QTY	UNIT COST	TOTAL	QTY	UNIT COST	TOTAL	QTY	UNIT COST	TOTAL	
A													
HARDWARE													
MK4 MOD 3													
SUBTOTAL													
PRODUCTION SUPPORT													
PRODUCTION ENGINEERING													
QUALITY ASSURANCE													
ACCEPTANCE TESTING													
INTERIM TRANSPORTATION													
INDUSTRIAL STOCK SUPPORT													
CAWCF GAIN/LOSS SURCHARGE													
SUBTOTAL													
TOTAL CAWCF													
NAVY ENGINEERING SUPPORT													
TOTAL P-1 LINE ITEM													

EXHIBIT P-5  
PAGE 1 OF 1

PAGE NO.

P-1 ITEM NO.

36

9

UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)						A. DATE FEBRUARY 1997				
B. APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT			C. P-1 ITEM NOMENCLATURE SIGNAL, MK 4 MOD 3							
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

SIGNAL, MK 4 MOD 3 FY 1995 @	KILGORE	C/FP	ARMY/AMCCOM (AFMC/OO-ALC)	APR 95	OCT 95	701500	1.67#			
FY 1998	UNKNOWN	C/FP	ARMY/AMCCOM (AFMC/OO-ALC)	MAR 98	MAR 99	596000	1.68#	YES	NO	
FY 1999	UNKNOWN	C/FP	ARMY/AMCCOM (AFMC/OO-ALC)	MAR 99	MAR 00	696500	1.72#	YES	NO	

D. REMARKS @ KILGORE IS LOCATED IN TOONE, TN.		P-1 SHOPP LIST ITEM NO. 9		PAGE NO. 57	Exhibit P-5A
# CAWCF PRICE DOES NOT INCLUDE ENGINEERING SUPPORT COSTS PROVIDED TO US NAVY FOR TECHNICAL DATA PACKAGE MAINTENANCE AND PRODUCTION ENGINEERING SUPPORT.					

# UNCLASSIFIED

**UNCLASSIFIED**

FY98/99 BUDGET PRODUCTION SCHEDULE						P-1 ITEM NOMENCLATURE:		SIGNAL, MK 4 MOD 3	DATE: FEBRUARY 1997								
ITEM/MFG PROCUREMENT YEAR		S E R V	PROC QTY	ACPT PRIOR	BAL DUE	FISCAL YEAR 97			FISCAL YEAR 98			FISCAL YEAR 99					
						96	96	96	96	96	96	96	96	96	96	96	96
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
UNKNOWN	FY98	AF	596	0	596												
UNKNOWN	FY99	AF	697	0	697												
TOTAL			1293	0	1293												
MANUFACTURERS NAME AND LOCATION		PROD RATES		REA.		REMARKS: QUANTITIES IN THOUSANDS.											
UNKNOWN		MIN	1-8.5	MAX	CH 0+	PROCUREMENT LEAD TIME						TOTAL AFTER 1 OCT					
		N/A	N/A	N/A	N/A	ADMIN LEAD TIME		MANUFACTURING TIME									
						PR 1 OCT	AFT 1 OCT										
						INITIAL		6		6		12		18			
						REORDER		6		6		12		18			

PAGE 1 OF 2 PAGE  
EXHIBIT P-21

**UNCLASSIFIED**

PAGE 1 OF 2 PAGE  
EXHIBIT P-21





UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997
APPROPRIATIONS/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					
PAAF/MUNITIONS AND RELATED EQUIPMENT		ITEMS LESS THAN \$2,000,000 (CARTRIDGES)					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
							FY 2003
QUANTITY							
COST (in Millions)	\$6.280	\$4.273	\$4.097	\$7.125	\$6.939	\$7.074	\$7.243
REMARKS							
<p>1. THIS CATEGORY CONSISTS OF MISCELLANEOUS CARTRIDGES USED FOR TRAINING AND WAR RESERVE MATERIEL.</p> <p>2. THESE ITEMS ARE CODE A ITEMS (APPROVED FOR SERVICE USE).</p> <p>3. SPECIFIC FY 98 AND FY 99 ITEMS ARE LISTED ON THE NEXT PAGE.</p>							
P-1 SHOPP LIST ITEM NO.		PAGE NO.					
10		40					

UNCLASSIFIED

# UNCLASSIFIED

## ITEMS LESS THAN \$2,000,000 (CARTRIDGES)

NOMENCLATURE	DODIC	FY 98		FY 99	
		QTY	THOUSANDS\$	QTY	THOUSANDS\$
.22 CALL BALL CART	A093	200,000	26	300,000	39
.50 CALL BALL LINK	A555	97,800	186	89,600	174
.50 CALL BALL TRACER	A557	0	0	498,000	1,066
.45 CAL BALL	A483	90,000	18	150,000	30
9MM BALL	A363	7,546,000	1,132	11,952,000	1,793
BBU-36 IMPULSE CART	MG11	695,520	995	794,880	1,218
MATCH AMMO	NA	N/A	139	N/A	139
50 CAL RAUFUS	A606	51,360	423	53,040	448
BBU-35 IMPULSE CART	MY74	1,491,120	1,178	1,990,080	1,612
40MM PRACTICE CART	B519	0	0	249,300	606
TOTAL			\$4,097		\$7,125

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT		P-1 ITEM NOMENCLATURE MK-82 INERT/BDU-50								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	12,930	12,750	30,672	36,906	20,452	20,535	20,718	25,345		
COST (in Millions)	\$8.194	\$6.276	\$22.218	\$27.265	\$15.298	\$15.720	\$16.229	\$20.321		
REMARKS										
<p>1. THIS ITEM IS THE MK-82, 500 POUND, GENERAL PURPOSE BOMB, LESS THE EXPLOSIVE FILL (192 POUNDS) WHICH IS USED FOR TRAINING. IT IS FILLED WITH A COMBINATION OF CONCRETE, VERMICULITE AND SAND TO SIMULATE THE DROP TRAJECTORY OF AN EXPLOSIVES LOADED BOMB.</p> <p>2. THIS ITEM IS PROCURED BY THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION. COST IS BASED ON CONVENTIONAL AMMUNITION WORKING CAPITAL FUND (CAWCF) STANDARD PRICING.</p>										
P-1 SHOPP LIST ITEM NO. 11		PAGE NO. 42								

UNCLASSIFIED



### AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)

**UNCLASSIFIED**

# UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

A. DATE  
FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE						
PAAF/MUNITIONS AND RELATED EQUIPMENT				MK-82 INERT/BDU-50						
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

### MK-82 INERT/BDU-50

FY 1997\*

IMCO/MCAAP

SS/FP

ARMY/AMCCOM  
(AFMC/OO-ALC)

JAN 97

SEP 98

12750

482.77@

FY 1998

IMCO/MCAAP

SS/FP

ARMY/AMCCOM  
(AFMC/OO-ALC)

JAN 98

SEP 99

30672

720.41@  
YES

NO

FY 1999

IMCO/MCAAP

SS/FP

ARMY/AMCCOM  
(AFMC/OO-ALC)

JAN 99

SEP 00

36906

735.45@  
YES

NO

### D. REMARKS

\*INTERCONTINENTAL MANUFACTURING CO (IMCO) IS LOCATED IN GARLAND, TX.  
\*MCALESTER ARMY AMMUNITION PLANT (MCAAP) IS LOCATED IN MCALESTER, OK.

@ UNIT COSTS DO NOT INCLUDE FUNDS PROVIDED TO US NAVY FOR ENGINEERING, ENGINEERING SUPPORT COSTS ENSURE TECHNICAL DATA PACKAGE MAINTENANCE AND PRODUCTION ENGINEERING SUPPORT.  
AWARD DATES ARE FOR LOAD, ASSEMBLY, AND PACK (LAP) (MCALESTER AAP).

P-1 SHOPP LIST  
ITEM NO.  
11

PAGE NO.  
44

Exhibit P-5A

# UNCLASSIFIED

**UNCLASSIFIED**

[illegible]

**UNCLASSIFIED**

**UNCLASSIFIED**

[illegible]

**UNCLASSIFIED**

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT		P-1 ITEM NOMENCLATURE GBU-28 HARD TARGET PENETRATOR						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	161	0	152	0	0	0	0
COST (in Millions)	\$0	\$18.417	\$0	\$17.391	\$0	\$0	\$0	\$0
REMARKS								
THE GBU-28A/B IS 5000-LB CLASS LASER GUIDED BOMB USED TO DEFEAT DEEPLY BURIED AND HARDENED TARGETS. IT CONSISTS OF THE BLU-113/B OR A/B WARHEAD, THE WGU-36A/B LASER GUIDANCE UNIT, THE BSG-92/B AIRFOIL GROUP AND THE FMU-143F/B, G/B OR H/B FUZE.								
P-1 SHOPP LIST ITEM NO. 13			PAGE NO. 47					

UNCLASSIFIED

### AMMUNITION COST ANALYSIS

**UNCLASSIFIED**

EXHIBIT P-5

PAGE 1 OF 1 PAGE

# UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE						
PAAF/MUNITIONS AND RELATED EQUIPMENT					GBU-28 HARD TARGET PENETRATOR						
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

### WGU-36A/B GUIDANCE AND CONTROL UNIT

FY 1992 @	TEXAS INSTRUMENTS	SS/FP	AFMC/OO-ALC	DEC 93	MAR 95	125	38348.00			
FY 1997	TEXAS INSTRUMENTS	SS/FP	AFMC/OO-ALC	AUG 97	JAN 98	161	46171.00	YES	NO	
FY 1999	TEXAS INSTRUMENTS	SS/FP	AFMC/OO-ALC	JAN 99	JUN 99	152	48518.89	YES	NO	
<b>BSG-92 AIRFOIL GROUP</b>										
FY 1992 @	TEXAS INSTRUMENTS	SS/FP	AFMC/OO-ALC	DEC 93	MAR 95	100	7267.00			
FY 1997	TEXAS INSTRUMENTS	SS/FP	AFMC/OO-ALC	AUG 97	JAN 98	161	8749.00	YES	NO	
FY 1999	TEXAS INSTRUMENTS	SS/FP	AFMC/OO-ALC	JAN 99	JUN 99	152	9193.90	YES	NO	
<b>BLU-113A/B WARHEAD</b>										
FY 1992 #	NATIONAL FORGE/MCAAP	C/FP	AFMC/ASC	SEP 93	APR 94	100	36416.00			
FY 1997	UNKNOWN	C/FP	AFMC/OO-ALC	AUG 97	MAR 99	161	43845.00	YES	NO	
FY 1999	UNKNOWN	C/FP	AFMC/OO-ALC	JAN 99	AUG 00	152	46074.60	YES	NO	
<b>FMU-143F,G,H/B FUZE</b>										
FY 1992 ^&	DAYRON	SS/FP	ARMY/AMCCOM (AFMC/ASC)	FEB 93	JAN 94	145	2010.00			
FY 1997	DAYRON	SS/FP	ARMY/AMCCOM (AFMC/OO-ALC)	MAR 97	SEP 97	177	1934.08	YES	NO	
FY 1999	DAYRON	SS/FP	ARMY/AMCCOM (AFMC/OO-ALC)	MAR 99	SEP 00	167	2041.53	YES	NO	

### D. REMARKS

@ TEXAS INSTRUMENTS IS LOCATED IN DALLAS, TEXAS  
 # NATIONAL FORGE, LOCATED IN IRVINE, PA., PRODUCES THE BOMB BODY. LOAD, ASSEMBLY, AND PACK (LAP) IS DONE BY MCALESTER AAP, LOCATED IN MCALESTER, OK.  
 ^ DAYRON IS LOCATED IN ORLANDO, FL  
 & PRICE OF FMU-143 IS BASED ON CAWCF WALK-IN PRICING PROVIDED BY THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION(SMCA).

P-1 SHOPP LIST  
 ITEM NO. 13  
 PAGE NO. 49

Exhibit P-5A

# UNCLASSIFIED







**UNCLASSIFIED**

[illegible]

**UNCLASSIFIED**

UNCLASSIFIED

# BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)

DATE  
FEBRUARY 1997

APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT		P-1 ITEM NOMENCLATURE BOMB PRACTICE 25 POUND						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	399,840	200,000	397,760	698,400	546,380	544,987	492,443	602,718
COST (in Millions)	\$5.934	\$2.908	\$5.613	\$10.057	\$8.474	\$8.654	\$8.002	\$10.022
REMARKS								

## REMARKS

1. THE BDU-33 IS A 25 POUND PRACTICE BOMB AND HAS A TEARDROP SHAPED METAL BODY WITH A TUBE CAVITY LENGTHWISE THROUGH THE CENTER, A CONICAL AFTER BODY, AND A CRUCIFORM TYPE FIN IN THE AFT END OF THE BOMB BODY. A FIRING PIN, INERTIA TUBE, AND STRIKER PLATE ARE SEPARATE COMPONENTS OF THE BOMB. A RECEPTACLE IS LOCATED FORWARD OF THE CENTER OF GRAVITY TO INSTALL A SINGLE SUSPENSION LUG IF REQUIRED. A HOLE IS PROVIDED IN EACH SIDE OF THE BODY FOR HANGING THE BOMB IN SUU-20 OR SUU-21 DISPENSERS. THE BDU-33 PRACTICE BOMB IS USED TO PROVIDE THE COMBAT AIR FORCES WITH AIRCREW WEAPONS DELIVERY TRAINING.

2. THIS ITEM IS PROCURED BY THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION. COST IS BASED ON CONVENTIONAL AMMUNITION WORKING CAPITAL FUND (CAWCF) STANDARD PRICING.

P-1 SHOPP LIST ITEM NO. 14		PAGE NO. 52
----------------------------------	--	----------------

UNCLASSIFIED

UNCLASSIFIED

AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)													
APPROPRIATION AND P-1 LINE ITEM													
PAAF													
BOMB PRACTICE 25 POUND													
ELEMENT OF COST	IDENT CODE	FY96		FY97		FY98		FY99		DATE: FEBRUARY 1997			
		QTY	UNIT COST	QTY	UNIT COST	QTY	UNIT COST	QTY	UNIT COST	QTY	UNIT COST	QTY	UNIT COST
<b>HARDWARE</b>													
BDU-33D/B	A	399840	\$11.95	200000	\$12.34	397760	\$13.35	698400	\$13.63				
SUBTOTAL			\$4,778		\$2,468		\$2,468		\$5,312		\$5,312		\$9,519
<b>PRODUCTION SUPPORT</b>													
QUALITY ASSURANCE			\$7		\$3				\$13				\$24
ACCEPTANCE TESTING			\$55		\$27				\$61				\$108
INTERIM TRANSPORTATION			\$18		\$23				\$38				\$69
INDUSTRIAL STOCK SUPPORT			\$203		\$99				\$189				\$337
CAWCF GAIN/LOSS SURCHARGE			\$873		\$288								
SUBTOTAL			\$1,156		\$440				\$301				\$538
<b>TOTAL P-1 LINE ITEM</b>		399840	\$14.84	200000	\$14.54	397760	\$14.11	698400	\$14.40				\$10,057
P-1 ITEM NO. 14													
PAGE NO. 53													
EXHIBIT P-5													
PAGE 1 OF 1													

UNCLASSIFIED

# UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE					A. DATE		
PAAF/MUNITIONS AND RELATED EQUIPMENT					BOMB PRACTICE 25 POUND					FEBRUARY 1997		
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		

FY 1996	DEL FASCO*	C/FP (OPTION)	ARMY/AMCCOM (AFMC/OO-ALC)	FEB 96	APR 96	399840	14.84				
FY 1997	UNKNOWN	C/FP	ARMY/AMCCOM (AFMC/OO-ALC)	MAR 97	MAY 98	200000	14.54	YES	NO		
FY 1998	UNKNOWN	C/FP	ARMY/AMCCOM (AFMC/OO-ALC)	MAR 98	MAY 99	397760	14.11	YES	NO		
FY 1999	UNKNOWN	C/FP	ARMY/AMCCOM (AFMC/OO-ALC)	MAR 99	MAY 00	698400	14.40	YES	NO		

### D. REMARKS

\* DELFASCO IS LOCATED IN GREENVILLE, TN.

P-1 SHOPP LIST ITEM NO. 14		PAGE NO. 54	Exhibit P-5A
-------------------------------	--	----------------	--------------

# UNCLASSIFIED





UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE	
APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT		P-1 ITEM NOMENCLATURE 2000 LB HE BOMB MK-84						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	0	1516	2539	6418	8113	8613
COST (in Millions)	\$0	\$0	\$0	\$5.672	\$9.439	\$24.401	\$30.886	\$34.277
REMARKS								
<p>1. THE MK-84 IS A 2,000 POUND CLASS GENERAL PURPOSE BOMB. IT HAS A RELATIVELY THIN BOMB CASE THAT IS STREAMLINED TO REDUCE AERODYNAMIC DRAG. THE BOMB IS DESIGNED TO PRODUCE BLAST AND FRAGMENTATION EFFECTS AND CAN BE USED AS AN UNGUIDED HIGH OR LOW DRAG WEAPON. WHEN COMBINED WITH A GUIDANCE KIT, IT CAN BE EMPLOYED AS A PRECISION GUIDED BOMB. THE MK-84 CAN BE FUZED WITH PROXIMITY, INSTANTANEOUS OR DELAY FUZES TO PROVIDE A VARIETY OF MILITARY EFFECTS.</p> <p>2. THE MK-84 IS PROCURED THROUGH THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION(SMCA). COST IS BASED ON WALK-IN ORDER PRICING PROVIDED BY THE SMCA.</p> <p>3. THE FY 99 QUANTITY DIFFERS FROM THE P-1 DUE TO UPDATED PRICING.</p>								
P-1 SHOPP LIST ITEM NO. 15			PAGE NO. 57					

UNCLASSIFIED



UNCLASSIFIED

## AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)

AMMUNITION COST ANALYSIS												
(DOLLARS IN THOUSANDS)												
APPROPRIATION AND P-1 LINE ITEM												
2000 LB HE BOMB, MK-84												
DATE: FEBRUARY 1997												
PAAF												
ELEMENT OF COST												
IDENT CODE												
FY96												
QTY												
UNIT COST												
QTY: 0												
FY97												
QTY												
UNIT COST												
TOTAL												
FY98												
QTY												
UNIT COST												
TOTAL												
FY99												
QTY												
UNIT COST												
TOTAL												
FY00												
QTY												
UNIT COST												
TOTAL												
A												
HARDWARE MK84(F275)												
LOAD ASSEMBLE AND PACK (LAP)												
BOMB BODY MK84-4												
LUG SUSP MK3												
ALUM PWDR, TYP III CLS 7, GR F (LB)												
SUBTOTAL												
PRODUCTION SUPPORT												
QUALITY ASSURANCE												
ACCEPTANCE TESTING												
INTERIM TRANSPORTATION												
INDUSTRIAL STOCK SUPPORT												
CAWCF GAIN/LOSS SURCHARGE												
SUBTOTAL												
TOTAL CAWCF												
NAVY ENGINEERING												
TOTAL P-1 LINE ITEM												
EXHIBIT P-5												
PAGE 1 OF 1 PAGE												

UNCLASSIFIED



# UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE					A. DATE	
PAAF/MUNITIONS AND RELATED EQUIPMENT					2000 LB HE BOMB, MK-84					FEBRUARY 1997	
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

2000 LB HE BOMB, MK-84

FY 1991

IMCO/MCAAP

SS/FP

ARMY/AMCCOM  
(AFMC/OO-ALC)

DEC 91

APR 95

3000

2073.81

YES

NO

FY 1999

IMCO/MCAAP

SS/FP

ARMY/AMCCOM  
(AFMC/OO-ALC)

JAN 99

SEP 00

1516

3661.29

YES

NO

### D. REMARKS

AWARD DATE REFLECTS DATE OF LOAD, ASSEMBLY, AND PACK (LAP) CONTRACT AWARD. MCALESTER ARMY AMMUNITION PLANT (MCAAP), LOCATED IN MCALESTER, OK IS THE LAP FACILITY AND INTERCONTINENTAL MFG CO (IMCO), LOCATED IN GARLAND, TX PROVIDES THE BOMB BODY.

P-1 SHOPP LIST  
ITEM NO. 15

PAGE NO. 59

Exhibit P-5A

# UNCLASSIFIED





UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT				P-1 ITEM NOMENCLATURE MK-84 BOMB-EMPTY						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	2,812	1,500	994	3,590	2,690	2,701	2,725	3,335		
COST (in Millions)	\$6,913	\$3,510	\$2,482	\$8,821	\$6,488	\$6,666	\$6,883	\$8,619		
REMARKS										
<p>1. THIS ITEM IS A MK-84 2000 POUND GENERAL PURPOSE BOMB THAT IS FILLED AT MCALESTER ARMY AMMUNITION PLANT WITH CONCRETE, VERMICULITE AND SAND. THE FY98/99 FUNDING PROCURES THE BDU-56. THE FILLED BOMB, WITHOUT FUZE WELLS OR PLUMBING, IS USED DURING TRAINING OR TEST WHEN A FULLY FUNCTIONAL BOMB IS NOT REQUIRED. THE BDU-56 SIMULATES THE DROP TRAJECTORY OF A LIVE MK-84.</p> <p>2. THE MK-84 IS PROCURED THROUGH THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION (SMCA). COST IS BASED ON CONVENTIONAL AMMUNITION WORKING CAPITAL FUND (CAWCF) STANDARD PRICING.</p>										
P-1 SHOPP LIST ITEM NO. 16				PAGE NO. 62						

UNCLASSIFIED

UNCLASSIFIED

AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)													
APPROPRIATION AND P-1 LINE ITEM PAAF													
MK-84 BOMB-EMPTY													
DATE: FEBRUARY 1997													
ELEMENT OF COST													
IDENT CODE	FY96 QTY	FY96 UNIT COST	2812 TOTAL	FY97 QTY	FY97 UNIT COST	1500 TOTAL	FY98 QTY	FY98 UNIT COST	994 TOTAL	FY99 QTY	FY99 UNIT COST	3590 TOTAL	
HARDWARE BDU-56 (E756) LOAD ASSEMBLE AND PACK (LAP) BOMB BODY W/O PLUMBING LUG SUSP MK3  SUBTOTAL	2812	231.92	\$652	1500	216.97	\$325	994	250.36	\$249	3590	255.6	\$918	
	2897	1621.08	\$4,696	1545	1644.99	\$2,542	1024	1876.31	\$1,921	3698	1915.61	\$7,084	
							2088	28.23	\$59	7539	28.82	\$218	
			\$5,348			\$2,867			\$2,229			\$8,220	
PRODUCTION SUPPORT QUALITY ASSURANCE ACCEPTANCE TESTING INTERIM TRANSPORTATION INDUSTRIAL STOCK SUPPORT CAWCF GAIN/LOSS SURCHARGE  SUBTOTAL			\$8			\$4			\$6			\$21	
			\$68			\$33			\$29			\$98	
			\$22			\$29			\$17			\$61	
			\$251			\$121			\$81			\$301	
			\$1,076			\$336							
			\$1,425			\$523			\$133			\$481	
TOTAL CAWCF	2812	2408.44	\$6,773	1500	\$2,259.70	\$3,390	994	\$2,374.01	\$2,362	3590	\$2,423.43	\$8,701	
NAVY ENGINEERING SUPPORT			\$140			\$120			\$120			\$120	
TOTAL P-1 LINE ITEM			\$ 6,913			\$ 3,510			\$ 2,482			\$ 8,821	
EXHIBIT P-5 PAGE 1 OF 1 PAGE													

UNCLASSIFIED

UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

A. DATE  
FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE						
PAAF/MUNITIONS AND RELATED EQUIPMENT				MK-84 BOMB-EMPTY						
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

## MK-84 EMPTY BDU-56(E756)

FY 1997	IMCO/MCAAP	SS/FP	ARMY/AMCCOM (AFMC/OO-ALC)	JAN 97	SEP 98	1500	2259.70			
FY 1998	IMCO/MCAAP	SS/FP	ARMY/AMCCOM (AFMC/OO-ALC)	JAN 98	SEP 99	994	2374.01	YES	NO	
FY 1999	IMCO/MCAAP	SS/FP	ARMY/AMCCOM (AFMC/OO-ALC)	JAN 99	SEP 00	3590	2423.43	YES	NO	

## D. REMARKS

AWARD DATE REFLECTS DATE OF LOAD, ASSEMBLE, AND PACK (LAP) CONTRACT AWARD. MCALESTER ARMY AMMUNITION PLANT (MCAAP), LOCATED IN MCALESTER, OK IS THE LAP FACILITY AND INTERCONTINENTAL MFG CO (IMCO), LOCATED IN GARLAND, TX PROVIDES THE BOMB BODY.

UNIT COSTS DO NOT INCLUDE FUNDS PROVIDED TO US NAVY FOR ENGINEERING SUPPORT COSTS.

Exhibit P-5A

PAGE NO.

P-1 SHOPP LIST  
ITEM NO.

16

64

UNCLASSIFIED









UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE
APPROPRIATION/BUDGET ACTIVITY PAA/FMUNITIONS AND RELATED EQUIPMENT										FEBRUARY 1997
P-1 ITEM NOMENCLATURE SENSOR FUZED WEAPON										
	PRIOR YEARS	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMPLETE	TOTAL PROGRAM
QUANTITY	1011	542	556	352	516	504	502	752	265	5000
COST (\$M)	\$501.840	\$152.000	\$153.861	\$143.343	\$171.343	\$168.777	\$170.150	\$236.617	\$110.312	\$1,808.243
INITIAL SPARES (\$M)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL (\$M)	\$501.840	\$152.000	\$153.861	\$143.343	\$171.343	\$168.777	\$170.150	\$236.617	\$110.312	\$1,808.243
UNIT COST (\$M)	\$0.496	\$0.280	\$0.277	\$0.407	\$0.332	\$0.335	\$0.339	\$0.315	\$0.416	\$0.362
REMARKS										

THE SENSOR FUZED WEAPON (CBU-97) IS A CLUSTER MUNITION DESIGNED FOR USE AGAINST LAND COMBAT VEHICLES. THE MUNITION IS COMPRISED OF A TACTICAL MUNITIONS DISPENSER (TMD), CONTAINING 10 BLU-108 SUBMUNITIONS. EACH SUBMUNITION CONTAINS 4 WARHEADS, A PARACHUTE ASSEMBLY, ALTIMETER AND ROCKET MOTOR. THE TMD OPENS AFTER RELEASE FROM THE DELIVERY AIRCRAFT DISPENSING THE SUBMUNITIONS. THE SUBMUNITIONS ARE PARACHUTE RETARDED AND ORIENTED NOSE DOWNWARD. AFTER THE PARACHUTE IS EJECTED, THE ROCKET MOTOR IS FIRED TO LAUNCH THE WARHEADS. THE WARHEADS ARE THEN RELEASED IN A HORIZONTAL TRAJECTORY AND ARE TARGET ACTIVATED THROUGH A SMALL INFRARED SENSOR CONTAINED IN THE WARHEAD, FIRING A SELF FORGING PROJECTILE INTO THE TARGET. THIS MUNITION PROVIDES MULTIPLE KILL PER PASS CAPABILITY.

P-1 SHOPP LIST ITEM NO. 17		PAGE NO.
		67

UNCLASSIFIED

**AMMUNITION COST ANALYSIS**

**UNCLASSIFIED**

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE							
PAAF/MUNITIONS AND RELATED EQUIPMENT				SENSOR FUZED WEAPON							
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

SENSOR FUZED WEAPON										
FY 1997	TEXTRON @	SS/FPIF	AFMC/ASC	JAN 97	JUN 98	542	254,000.00#			
FY 1998	TEXTRON	SS/FPIF (OPTION)	AFMC/ASC	JAN 98	JUN 99	556	253,000.00#	YES	NO	
FY 1999	TEXTRON	SS/FPIF	AFMC/ASC	JAN 99	JUN 00	352	366,000.00#	YES	NO	

D. REMARKS	
@ TEXTRON DEFENSE IS LOCATED IN WILMINGTON, MA. THE LRIP CONTRACTS ARE FPIF WHICH WILL ENCOURAGE LOWER COST AND AGGRESSIVE COST MONITORING. # UNIT COSTS REFLECT COST OF CBU-97 HARDWARE ONLY. UNIT COST INCREASE IN FY 99 IS A RESULT OF INCORPORATING THE P31 PRODUCTION.	
P-1 SHOPP LIST ITEM NO.17	PAGE NO. 69 Exhibit P-5A

# UNCLASSIFIED





UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE
APPROPRIATION/BUDGET ACTIVITY										
PAA/MUNITIONS AND RELATED EQUIPMENT										
P-1 ITEM NOMENCLATURE JOINT DIRECT ATTACK MUNITION										
	PRIOR YEARS	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMPLETE	TOTAL PROGRAM
QUANTITY	0	937	2673	2620	6325	10122	10617	10592	18114	62000
GROSS COST (\$M)	\$0	\$23.010	\$61.307	\$62.202	\$143.207	\$233.114	\$223.789	\$218.020	\$375.798	\$1340.447
INITIAL SPARES (\$M)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL (\$M)	\$0	\$23.010	\$61.307	\$62.202	\$143.207	\$233.114	\$223.789	\$218.020	\$375.798	\$1340.447
FLYAWAY UNIT COST (\$M)	N/A	\$0.019	\$0.019	\$0.020	\$0.021	\$0.021	\$0.020	\$0.019	\$0.019	\$0.020
WPN SYS PROC UNIT COST (\$M)	N/A	\$0.025	\$0.023	\$0.024	\$0.023	\$0.023	\$0.021	\$0.021	\$0.021	\$0.022
REMARKS										
<p>OPERATION DESERT STORM CONFIRMED THE NEED FOR A MORE ACCURATE WEAPON DELIVERY CAPABILITY IN ADVERSE WEATHER CONDITIONS AND FROM MEDIUM/HIGH ALTITUDES. FAILURE TO SATISFY THIS REQUIREMENT WILL ALLOW THE ENEMY TO CONTINUE TO TAKE ADVANTAGE OF THE SANCTUARY OF WEATHER AND/OR PREVENT U.S. AIR POWER FROM PROSECUTING A CONFLICT ON ITS TERMS. THE JOINT DIRECT ATTACK MUNITION (JDAM) PROGRAM IS A JOINT AIR FORCE AND NAVY PROGRAM TO CORRECT THESE SHORTFALLS, WITH THE AIR FORCE AS EXECUTIVE SERVICE. JDAM WILL UPGRADE THE EXISTING INVENTORY OF GENERAL PURPOSE BOMBS (MK-84/BLU-109/B, AND MK-83) BY INTEGRATING THE BOMBS WITH A GUIDANCE KIT CONSISTING OF A GLOBAL POSITIONING SYSTEM AIDED INERTIAL NAVIGATION SYSTEM (GPS/INS). JDAM WILL PROVIDE AN ACCURATE (13 METERS), ADVERSE WEATHER CAPABILITY. JDAM WILL INITIALLY BE INTEGRATED WITH THE B-52, B-2, B-1B AND F/A-18C/D AIRCRAFT. FOLLOW-ON INTEGRATION WILL BE ON THE F-16, F-15E, F-22, AND OTHER AIRCRAFT. THE TOTAL PRODUCTION BUY FOR JDAM IS 87,496 UNITS (62,000 FOR THE AIR FORCE AND 25,496 FOR THE NAVY). THERE IS NO REQUIREMENT FOR INITIAL SPARES BECAUSE THE PROGRAM HAS A 20 YEAR WARRANTY.</p>										
				P-1 SHOPP LIST ITEM NO. 20	PAGE NO.		72			

UNCLASSIFIED

UNCLASSIFIED

AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)													
APPROPRIATION AND P-1 LINE ITEM													
PAAF													
JOINT DIRECT ATTACK MUNITION													
ELEMENT OF COST	IDENT CODE	FY 96		FY 97		FY 98		FY 99		FY 00		FY 01	
		QTY	UNIT COST	TOTAL	QTY	UNIT COST	TOTAL	QTY	UNIT COST	TOTAL	QTY	UNIT COST	TOTAL
FLYAWAY COST	A												
HARDWARE-RECURRING													
AIRFRAME													
ENGINEERING CHANGE ORDERS													
SUBTOTAL													
NONRECURRING													
CONTRACTOR INCENTIVE													
SUBTOTAL													
TOTAL FLYAWAY COST													
SUPPORT COST													
TEST EQUIPMENT (CMRE)													
AIRBORNE TEST EQUIPMENT													
DATA													
PMA													
SYSTEMS TEST & EVAL													
TRAINING													
SUBTOTAL													
AIRCRAFT FLIGHT CERTIFICATION ITEMS													
JDAM TEST UNITS													
SUBTOTAL													
TOTAL P-1 LINE ITEM													
EXHIBIT P-5													
PAGE 1 OF 1													

UNCLASSIFIED



## UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY							C. P-1 ITEM NOMENCLATURE			A. DATE		
PAAF/MUNITIONS AND RELATED EQUIPMENT							JOINT DIRECT ATTACK MUNITION			FEBRUARY 1997		
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW*	SPEC REV REQ'D	IF YES, WHEN AVAIL		
<b>Joint Direct Attack Munition</b>												
FY 1997	MC DONNELL DOUGLAS AEROSPACE @	SS/FFP (OPTION)	AFMC/ASC	APR 97	APR 98	937	25,000	N/A	N/A			
FY 1998	MC DONNELL DOUGLAS AEROSPACE	SS/FFP (OPTION)	AFMC/ASC	APR 98	APR 99	2673	23,000	N/A	N/A			
FY 1999	MC DONNELL DOUGLAS AEROSPACE	SS/FFP (OPTION)	AFMC/ASC	APR 99	APR 00	2620	24,000	N/A	N/A			

## D. REMARKS

\* SPECIFICATIONS HAVE BEEN WAIVED DUE TO JDM'S STATUS AS AN ACQUISITION REFORM PILOT PROGRAM.  
 @ MC DONNELL DOUGLAS IS LOCATED IN ST LOUIS, MO.  
 FY 97 CONTRACT IS AN OPTION TO THE FY 96 RESEARCH AND DEVELOPMENT (R&D) CONTRACT.

P-1 SHOPP LIST  
ITEM NO. 20

PAGE NO.

74

Exhibit P-5A

UNCLASSIFIED





**UNCLASSIFIED**

[illegible]

UNCLASSIFIED

UNCLASSIFIED

[illegible]

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE
APPROPRIATION/BUDGET ACTIVITY										
PAAF/MUNITIONS AND RELATED EQUIPMENT										
P-1 ITEM NOMENCLATURE WIND CORRECTED MUNITIONS DISPENSER										
	PRIOR YEARS	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TO COMPLETE	TOTAL PROGRAM
QUANTITY	0	0	280	779	3,555	6,805	8,320	8,082	12,179	40,000
COST (\$M)	\$0	\$0	\$19.871	\$30.087	\$87.072	\$132.091	\$144.360	\$137.061	\$217.972	\$768.514
INITIAL SPARES (\$M)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL (\$M)	\$0	\$0	\$19.871	\$30.087	\$87.072	\$132.091	\$144.360	\$137.061	\$217.972	\$768.514
UNIT COST (\$M)	\$0	\$0	\$0.071	\$0.039	\$0.024	\$0.019	\$0.017	\$0.017	\$0.018	\$0.019
REMARKS										
<p>1. THE WIND CORRECTED MUNITIONS DISPENSER (WCMD) GUIDANCE KIT WILL PROVIDE INERTIAL NAVIGATION TO CORRECT EFFECTS OF WIND TRANSIENTS AND BALLISTIC ERRORS CAUSED BY WIND WHEN TACTICAL MUNITIONS DISPENSERS ARE RELEASED FROM MEDIUM TO HIGH ALTITUDES. THE WCMD KIT FITTED WEAPONS WILL IMPROVE EFFECTIVENESS OF BOTH BOMBERS AND FIGHTERS AND SIGNIFICANTLY CONTRIBUTE TO AIR FORCE WAR FIGHTING CAPABILITIES IN TWO NEARLY SIMULTANEOUSLY MAJOR REGIONAL CONFLICTS (MRC).</p> <p>2. PROGRAM IS CURRENTLY IN COMPETITIVE ENGINEERING AND MANUFACTURING DEVELOPMENT (PE 64600F). THE FIRST LOW RATE INITIAL PRODUCTION (LRIP 1) IS SCHEDULED IN FY98. COMBINED DEVELOPMENT TEST AND EVALUATION (DT&amp;E) AND INITIAL OPERATIONAL TEST AND EVALUATION (IOT&amp;E) IS SCHEDULED TO BE COMPLETED BY SEPTEMBER 1997; OPERATIONAL TEST AND EVALUATION (OT&amp;E) AND SERVICE APPROVAL IS SCHEDULED FOR MARCH 1998.</p>										

	P-1	PAGE NO.
	SHOPP LIST ITEM NO. 21	78

UNCLASSIFIED



UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE							
PAAF/MUNITIONS AND RELATED EQUIPMENT			WIND CORRECTED MUNITIONS DISPENSER							
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
WIND CORRECTED MUNITIONS DISPENSER										
FY 1998	UNKNOWN	C/FFP	AFMC/ASC	FEB 98	DEC 98	280	\$43,000.00@	YES	NO	
FY 1999	UNKNOWN	C/FFP (OPTION)	AFMC/ASC	FEB 99	DEC 99	779	\$29,000.00@	YES	NO	

D. REMARKS	
@UNIT COSTS REFLECT COST OF HARDWARE ONLY.	
P-1 SHOPP LIST ITEM NO.21	PAGE NO. 80
Exhibit P-5A	

UNCLASSIFIED





[illegible]

UNCLASSIFIED



# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT		P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2,000,000 (BOMBS)						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Millions)	\$2.917	\$0.050	\$0.167	\$0	\$1.476	\$1.517	\$1.553	\$2.246
REMARKS								

1. THIS CATEGORY CONSISTS OF INERT BOMBS, COMPONENTS AND VARIOUS OTHER ITEMS NECESSARY FOR PEACETIME OPERATIONS AND WAR RESERVE MATERIEL STOCKPILES.
2. THESE ITEMS ARE CODE A ITEMS (APPROVED FOR SERVICE USE).
3. SPECIFIC ITEMS ARE LISTED BELOW:

NOMENCLATURE	DODIC	FY 98		FY 99	
		QTY	THOUSANDS\$	QTY	THOUSANDS\$
GBU-15 Dummy Control Unit WCU-8(D-2)/B	EA33	4	107	0	0
Dummy TV Seeker DSU-27(D-2)/B	FY95	3	60	0	0
	TOTAL		167		0

P-1 SHOPP LIST ITEM NO. 23	PAGE NO. 83
----------------------------------	----------------

# UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY PAA/MUNITIONS AND RELATED EQUIPMENT		P-1 ITEM NOMENCLATURE ASTE (INFRARED EXPENDABLE)					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002 FY 2003
QUANTITY (In Thousands)	0	0	0	21,402	34,787	34,133	33,235 31,812
COST (In Millions)	\$0	\$0	\$0	\$2,987	\$4,968	\$4,975	\$4,982 \$4,989
REMARKS							
<p>1. THE ADVANCED STRATEGIC AND TACTICAL EXPENDABLES (ASTE) INTERFACE WITH THE ALE-4X SERIES DISPENSERS AND ARE USED TO PROTECT FIGHTER AND TRANSPORT AIRCRAFT (C-130,F-16,F-15) AGAINST THIRD/FOURTH GENERATION IR MISSILES THAT CONTAIN FLARE COUNTER-COUNTERMEASURES. WITHOUT THESE ADVANCED EXPENDABLES, AIRCRAFT HAVE INADEQUATE PROTECTION AGAINST THESE TYPE MISSILES AND, IN TIME OF CONFLICT, INCREASED AIRCRAFT LOSSES CAN BE EXPECTED.</p> <p>2. FOUR CONFIGURATIONS OF ASTE ARE BEING PROCURED. THE MJU-47/B IS A KINEMATIC FLARE DESIGNED TO FLY ALONG WITH AND/OR AHEAD OF THE AIRCRAFT. THE MJU-48/B IS A COMPANION FLARE DESIGNED TO BE USED IN CONJUNCTION WITH THE MJU-47/B. THE MJU-XX2 AND MJU-XX1 ARE COVERT FLARES THAT CONTAIN SPECIAL MATERIALS SO THE EXPENDING AIRCRAFT IS NOT ILLUMINATED.</p> <p>3. THE PROGRAM IS CURRENTLY IN RESEARCH AND DEVELOPMENT (PE 64270). DEVELOPMENT TEST AND EVALUATION (DT&amp;E) IS SCHEDULED FOR NOV 97; INITIAL OPERATIONAL TEST AND EVALUATION (IOT&amp;E) IS SCHEDULED FOR AUG 98; TECHNICAL DATA PACKAGE AND SERVICE USE APPROVAL IS SCHEDULED FOR MAY 98.</p>							
		P-1 SHOPP LIST ITEM NO. 25 ---		PAGE NO. 84			

UNCLASSIFIED



UNCLASSIFIED

## AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)

APPROPRIATION AND P-1 LINE ITEM		DATE: FEBRUARY 1997										
PAAF		ASTE (INFRARED EXPENDABLE)										
ELEMENT OF COST	IDENT CODE	FY96		FY97		FY98		FY99		QTY: 10000		
		QTY	UNIT COST	TOTAL	QTY	UNIT COST	TOTAL	QTY	UNIT COST	TOTAL	QTY	UNIT COST
<b>HARDWARE</b>	B											
MJU-48/B												
SUBTOTAL												
<b>PRODUCTION SUPPORT</b>												
TECH DATA												
ECOs												
FIRST ARTICLE TEST												
SUBTOTAL												
<b>TOTAL MJU-48/B</b>												

EXHIBIT P-5  
PAGE 2 OF 4PAGE NO. 6  
P-1 ITEM NO. 25

UNCLASSIFIED

### AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)

[illegible]

**UNCLASSIFIED**

**AMMUNITION COST ANALYSIS**  
(DOLLARS IN THOUSANDS)

**UNCLASSIFIED**

# UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING(P-5A)

FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE						
PAAF/MUNITIONS AND RELATED EQUIPMENT				ASTE(INFRARED EXPENDABLE)						
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

<b>MJU-47/B</b>	TRACOR*	SS/FFP	AFMC/ASC	APR 99	SEP 99	10000	169.00	NO	YES	MAY 98
FY 1999										
<b>MJU-48/B</b>	TRACOR*	SS/FFP	AFMC/ASC	APR 99	SEP 99	10000	79.00	NO	YES	MAY 98
FY 1999										
<b>MJU-XX1</b>	ASC**	SS/FFP	AFMC/ASC	APR 99	SEP 99	750	76.00	NO	YES	MAY 98
FY 1999										
<b>MJU-XX2</b>	ASC**	SS/FFP	AFMC/ASC	APR 99	SEP 99	652	141.00	NO	YES	MAY 98
FY 1999										

### D. REMARKS

\* TRACOR AEROSPACE IS LOCATED IN CAMDEN, AK.

\*\* ALLOY SURFACES CO (ASC) IS LOCATED IN WILMINGTON, DE.

UNIT COST IS HARDWARE COST ONLY.

Exhibit P-5A

P-1 SHOPP LIST  
ITEM NO.25

PAGE NO.  
89

# UNCLASSIFIED

**UNCLASSIFIED**

[illegible]

**UNCLASSIFIED**



**UNCLASSIFIED**

[illegible]

**UNCLASSIFIED**

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE	
APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT		P-1 ITEM NOMENCLATURE FLARE, IR MJU-7B					FEBRUARY 1997	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	943,380	899,640	662,280	862,680	912,280	964,002	1,017,626	1,124,956
COST (in Millions)	\$ 21.859	\$20.018	\$14.698	\$19.541	\$21.663	\$23.432	\$25.314	\$28.631
REMARKS								
<p>1. THE MJU-7B IS AN INFRARED COUNTERMEASURES FLARE USED BY THE F-16 AND C-141 AIRCRAFT AGAINST HEAT SEEKING MISSILES. IT IS DISPENSED FROM THE AN/ALE-40(V). THE MJU-7B FLARE IS A PYROTECHNIC CANDLE THAT CREATES AN INFRARED SIGNATURE, ACTING AS A DECOY AGAINST HEAT SEEKING MISSILES. THE FLARE CANDLE IS EJECTED FROM THE DISPENSER BY A SMALL EXPLOSIVE CARTRIDGE (BBU-36) CONTAINED IN THE FLARE CASE.</p> <p>2. THIS ITEM IS PROCURED BY THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION. COST IS BASED ON CONVENTIONAL AMMUNITION WORKING CAPITAL FUND (CAWCF) STANDARD PRICING.</p>								
P-1 SHOPP LIST ITEM NO. 26			PAGE NO. 92					

UNCLASSIFIED

UNCLASSIFIED

## AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)

DATE: FEBRUARY 1997											
FLARE, IR MJU-7B											
APPROPRIATION AND P-1 LINE ITEM PAAF ELEMENT OF COST	IDENT CODE	FY96		FY97		FY98		FY99		FY99	
		QTY	UNIT COST	QTY	UNIT COST	QTY	UNIT COST	QTY	UNIT COST	QTY	UNIT COST
HARDWARE MJU-7B	A	943380	\$18.65	\$17,600	899640	\$16,994	\$18.89	\$16,994	\$21.00	862680	\$21.44
SUBTOTAL				\$17,600		\$16,994		\$16,994		862680	\$18,496
PRODUCTION SUPPORT											
QUALITY ASSURANCE				\$25		\$23					\$46
ACCEPTANCE TESTING				\$202		\$185					\$208
INTERIM TRANSPORTATION				\$67		\$161					\$134
INDUSTRIAL STOCK SUPPORT				\$748		\$671					\$657
CAWCF GAIN/LOSS SURCHARGE				\$3,217		\$1,984					
SUBTOTAL				\$4,259		\$3,024					\$1,045
TOTAL P1 LINE ITEM		943380	\$23.17	\$21,859	899640	\$20,018	\$22.25	\$20,018	\$22.19	862680	\$22.65
											\$19,541
				P-1 ITEM NO.	PAGE NO. 93		EXHIBIT P-5				
				26			PAGE 1 OF 1				

UNCLASSIFIED

## UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING(P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE						
PAAF/MUNITIONS AND RELATED EQUIPMENT				FLARE, IR MJU-7B						
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FLARE MJU-7/B FY 1996#	ALLIANT TECHSYSTEMS &	C/FP	ARMY/AMCCOM (AFMC/OO-ALC)	OCT 96	DEC 96	647159	23.17			
FY 1996#	MARTIN ELECTRONICS @	C/FP	ARMY/AMCCOM (AFMC/OO-ALC)	OCT 96	APR 97	296221	23.17			
FY 1997^	UNKNOWN	C/FP	ARMY/AMCCOM (AFMC/OO-ALC)	AUG 97	SEP 98	899640	22.25	YES	NO	
FY 1998	UNKNOWN	C/FP	ARMY/AMCCOM (AFMC/OO-ALC)	MAR 98	APR 99	662280	22.19	YES	NO	
FY 1999	UNKNOWN	C/FP	ARMY/AMCCOM (AFMC/OO-ALC)	MAR 99	APR 00	862680	22.65	YES	NO	

## D. REMARKS

# FY 96 CONTRACT DELAYED PENDING ENGINEERING DECISIONS ON USE OF ATOMIZED MAGNESIUM.

^ FY 97 CONTRACT AWARD DELAYED DUE TO VALIDATION OF PROCUREMENT STRATEGY AND RESTRICTED SPECIFIED BASE(RSB).

&amp; ALLIANT TECHSYSTEMS IS LOCATED IN TOONE, TN.

@ MARTIN ELECTRONICS IS LOCATED IN PERRY, FL.

P-1 SHOPP LIST  
ITEM NO. 26PAGE NO.  
4

Exhibit P-5A

UNCLASSIFIED





UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE
APPROPRIATION/BUDGET ACTIVITY PAA/MUNITIONS AND RELATED EQUIPMENT				P-1 ITEM NOMENCLATURE PARACHUTE FLARE, LUU-2B/B						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	1472	1486	1492	1505	1842		
COST (in Millions)	\$0	\$0	\$0	\$,830	\$,780	\$,802	\$,828	\$1,037		
REMARKS										
<p>1. THE LUU-2 B/B AIRCRAFT PARACHUTE FLARE IS AN AIRCRAFT LAUNCHED ILLUMINATING DEVICE. THESE FLARES ARE CLASSIFIED ACCORDING TO USE, ILLUMINATION, AND BURN TIME. FLARES FOR AIRCRAFT USE PROVIDE ILLUMINATION FOR RECONNAISSANCE, BOMBARDMENT, EMERGENCY NIGHT LANDINGS OR SEARCH AND RESCUE. FLARES MAY BE DELIVERED/LAUNCHED FROM HIGH SPEED AIRCRAFT BY USE OF SUU-25 FLARE DISPENSER OR LAUNCHED FROM C-130 AFT LAU-74 CARGO DOOR LAUNCHER. FLARES CAN ALSO BE HAND LAUNCHED OR LAUNCHED FROM AIRCRAFT UTILIZING STATIC LINE IGNITION. FLARES ARE ATTACHED TO AN 18 FOOT DIAMETER CRUCIFORM PARACHUTE, HAVE SETTINGS FROM 500 TO 11,000 FEET, AND FREE FALL PRIOR TO FUNCTIONING. THE FLARE CANDLE BURNS FOR APPROXIMATELY FIVE MINUTES AND PRODUCES TWO MILLION CANDLEPOWER.</p> <p>2. THIS ITEM IS PROCURED BY THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION (SMCA). COST IS BASED ON CONVENTIONAL AMMUNITION WORKING CAPITAL FUND (CAWCF) STANDARD PRICING.</p>										
P-1 SHOPP LIST ITEM NO. 27				PAGE NO. 97						

UNCLASSIFIED



### AMMUNITION COST ANALYSIS

**UNCLASSIFIED**

# UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING(P-5A)

B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE					A. DATE	
PAAF/MUNITIONS AND RELATED EQUIPMENT					PARACHUTE FLARE, LUU-2B/B					FEBRUARY 1997	
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

### PARACHUTE FLARE, LUU-2B/B

FY 1995@

THOKOL CORP

C/FP

ARMY/AMCCOM  
(AFMC/OO-ALC)

MAY 95

MAR 96

7484

533.86

FY 1999

UNKNOWN

C/FP

ARMY/AMCCOM  
(AFMC/OO-ALC)

MAR 99

JUL 00

1472

563.64

YES

NO

### D. REMARKS

@ THOKOL CORPORATION ORDNANCE OPERATION, UTAH DIVISION, IS LOCATED IN BRINGHAM, UT.

P-1 SHOPP LIST  
ITEM NO. 27

PAGE NO. 59

Exhibit P-5a

# UNCLASSIFIED

**UNCLASSIFIED**

[illegible]

**UNCLASSIFIED**

PAGE 1 OF 2 PAGE  
EXHIBIT P-21



UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE
APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT		P-1 ITEM NOMENCLATURE MJU-10/B FLARE								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	110,280	214,584	190,824	199,440	194,533	194,925	195,756	247,182		
COST (in Millions)	\$7.204	\$12.730	\$11.477	\$12.246	\$12.316	\$12.630	\$12.981	\$16.767		
REMARKS										
<p>1. THIS ITEM IS AN INFRARED COUNTERMEASURES FLARE USED BY THE F-15 AIRCRAFT AGAINST HEAT SEEKING MISSILES. IT IS DISPENSED FROM THE AN/ALE-45. THIS FLARE IS APPROXIMATELY TWICE THE SIZE OF THE MJU-7/B FLARE, WHICH IS USED ON F-16 AND C-141 AIRCRAFT.</p> <p>2. THIS ITEM IS PROCURED BY THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION. COST IS BASED ON CONVENTIONAL AMMUNITION WORKING CAPITAL WORKING FUND (CAWCF) STANDARD PRICING.</p>										
P-1 SHOPP LIST ITEM NO. 29			PAGE NO. 102							

UNCLASSIFIED

UNCLASSIFIED

AMMUNITION COST ANALYSIS													
(DOLLARS IN THOUSANDS)													
APPROPRIATION AND P-1 LINE ITEM													
PAAF													
MJU-10/B													
ELEMENT OF COST	IDENT CODE	FY96		FY97		FY98		FY99		DATE: FEBRUARY 1997		FY99	
		QTY	UNIT COST	QTY	UNIT COST	QTY	UNIT COST	QTY	UNIT COST	QTY	UNIT COST	QTY	UNIT COST
HARDWARE MJU-10/B	A	110280	\$52.59	214584	\$50.35	190824	\$56.92	199440	\$58.11	199440	\$58.11	199440	\$58.11
SUBTOTAL													
PRODUCTION SUPPORT													
QUALITY ASSURANCE													
ACCEPTANCE TESTING													
INTERIM TRANSPORTATION													
INDUSTRIAL STOCK SUPPORT													
CAWCF GAIN/LOSS SURCHARGE													
SUBTOTAL													
TOTAL P1 LINE ITEM													
												EXHIBIT P-5	
												PAGE 1 OF 1	

UNCLASSIFIED

## UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING(P-5A)

FEBRUARY 1997

## B. APPROPRIATION/BUDGET ACTIVITY

## PAAF/MUNITIONS AND RELATED EQUIPMENT

## C. P-1 ITEM NOMENCLATURE

## MJU-10/B FLARE

LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
---------------------------	-------------------------	------------------------------	------------------	---------------	------------------------------	----------	--------------	----------------------	----------------------	--------------------------

## MJU-10/B FLARE

FY 1994 # ^

TRACOR @

C/FP

ARMY/AMCCOM  
(AFMC/OO-ALC)

JAN 97

SEP 97

31152

64.17

FY 1996 ^

TRACOR

C/FP

ARMY/AMCCOM  
(AFMC/OO-ALC)

JAN 97

NOV 98

110280

65.32

FY 1997 &amp;

UNKNOWN

C/FP

ARMY/AMCCOM  
(AFMC/OO-ALC)

AUG 97

AUG 98

214584

59.32

NO

FY 1998

UNKNOWN

C/FP

ARMY/AMCCOM  
(AFMC/OO-ALC)

MAR 98

APR 99

190824

60.14

NO

FY 1999

UNKNOWN

C/FP

ARMY/AMCCOM  
(AFMC/OO-ALC)

MAR 99

APR 00

199440

61.40

NO

## D. REMARKS

@ TRACOR IS LOCATED IN CAMDEN, AR.

# EVEN THOUGH FY 94 AND FY 96 FUNDING WILL BE AWARDED ON A CONSOLIDATED CONTRACT, THE PRICING DIFFERS BECAUSE MIPRs ARE PROCESSED IN DIFFERENT FUND YEARS. FY 94 PRICING IS BASED ON FY 95 CAWCF STANDARD PRICING AND FY 96 PRICING IS BASED ON FY 96 CAWCF PRICING.

^ CONTRACT AWARD DELAYED DUE TO CHANGE IN PROCUREMENT STRATEGY.

&amp; CONTRACT AWARD DELAYED PENDING VALIDATION OF PROCUREMENT STRATEGY AND RESTRICTED SPECIFIED BASE (RSB).

P-1 SHOP LIST  
ITEM NO.29PAGE NO.  
104

Exhibit P-5A

UNCLASSIFIED







# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT		P-1 ITEM NOMENCLATURE M-206 CARTRIDGE FLARE						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	331,000	1,045,000	1,099,600	798,000	822,678	824,634	828,789	985,993
COST (in Millions)	\$11.250	\$12.791	\$17.507	\$12.968	\$10.751	\$11.029	\$11.342	\$13.180
REMARKS								
1. THIS ITEM IS AN INFRARED COUNTERMEASURES FLARE USED BY THE A-10, C-130 AND AC-130 AIRCRAFT AGAINST HEAT SEEKING MISSILES.								
2. THIS ITEM IS PROCURED BY THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION. COST IS BASED ON CONVENTIONAL AMMUNITION WORKING CAPITAL FUND (CAWCF) STANDARD PRICING.								
		P-1 SHOPP LIST ITEM NO. 30		PAGE NO. 107				

# UNCLASSIFIED

### AMMUNITION COST ANALYSIS

**UNCLASSIFIED**

**UNCLASSIFIED**

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING(P-5A)						A. DATE FEBRUARY 1997				
B. APPROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE							
PAAF/MUNITIONS AND RELATED EQUIPMENT			M-206 CARTRIDGE FLARE							
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

## M-206 CARTRIDGE FLARE

FY 1996#	MARTIN ELECTRONICS	C/FP	ARMY/AMCCOM (AFMC/OO-ALC)	SEP 96	MAY 97	331000	33.97			
FY 1997^	UNKNOWN	C/FP	ARMY/AMCCOM (AFMC/OO-ALC)	AUG 97	SEP 98	1,045,000	12.24	YES	NO	
FY 1998	UNKNOWN	C/FP	ARMY/AMCCOM (AFMC/OO-ALC)	MAR 98	MAY 99	1,099,600	15.92	YES	NO	
FY 1999	UNKNOWN	C/FP	ARMY/AMCCOM (AFMC/OO-ALC)	MAR 99	MAY 00	798,000	16.25	YES	NO	

## D. REMARKS

# MARTIN ELECTRONICS IS LOCATED IN PERRY, FL. FY96 CONTRACT AWARD DELAYED DUE TO TECHNICAL DECISIONS ON USE OF ATOMIZED MAGNESIUM.  
 ^ FY 97 CONTRACT AWARD DELAYED PENDING VALIDATION OF PROCUREMENT STRATEGY AND RESTRICTED SPECIFIED BASE (RSB).

P-1 SHOPP LIST ITEM NO. 30		PAGE NO. 109	Exhibit P-5A
-------------------------------	--	-----------------	--------------

# UNCLASSIFIED







UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE		
APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT		P-1 ITEM NOMENCLATURE CAD/PAD						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (in Millions)			\$12.821	\$14.609	\$14.577	\$14.594	\$21.306	\$21.342
REMARKS								
<p>1. CARTRIDGE ACTUATED DEVICES/PROPELLANT ACTUATED DEVICES (CAD/PAD), SUCH AS GAS GENERATORS, INITIATORS, SHIELD MILD DETONATING CORD (SMDC), ROCKET MOTORS, ROCKET CATAPULTS, ETC., ARE USED ON AIRCRAFT FIRE SUPPRESSION, EMERGENCY RELEASE AND AIRCREW ESCAPE SYSTEMS. THESE EXPLOSIVE DEVICES HAVE FINITE LIVES AND ARE REPLACED DURING SCHEDULED MAINTENANCE. AIRCRAFT OPERATIONAL AVAILABILITY IS DIRECTLY IMPACTED IF REPLACEMENT ASSETS ARE NOT AVAILABLE TO MEET CHANGE OUT REQUIREMENTS. LIFE SUPPORT DEVICES SUCH AS THE SEA WATER ACTIVATED RELEASE SYSTEM AND PARACHUTE RELEASE CARTRIDGES ARE ESSENTIAL TO CREW SURVIVAL AFTER EJECTION.</p> <p>2. FY 97 AND PRIOR FUNDING IS INCLUDED IN APPROPRIATION 3010, AIRCRAFT PROCUREMENT, AIR FORCE (APAF).</p>								
P-1 SHOPP LIST ITEM NO.			PAGE NO.					
31			112					

UNCLASSIFIED

# UNCLASSIFIED

## AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)

AMMUNITION COST ANALYSIS												
(DOLLARS IN THOUSANDS)												
DATE: FEBRUARY 1997												
CAD/PAD												
APPROPRIATION AND P-1 LINE ITEM												
PAAF												
ELEMENT OF COST												
IDENT CODE												
FY96 QTY												
FY97 QTY												
FY98 QTY												
FY99 QTY												
N/A												
N/A												
TOTAL												
UNIT COST												
TOTAL												
B1-B EGRESS COMPONENTS/KITS												
A												
B-2 SHAPED CHARGES/EGRESS COMPONENTS												
A												
C-17A PANEL ASSYS/INITIATORS/EGRESS COMPONENTS												
A												
F-15 EGRESS COMPONENTS												
A												
F-16 EGRESS COMPONENTS												
A												
F-117A CANOPY REMOVER/JETTISON/EGRESS COMPONENTS												
A												
COMMON EGRESS COMPONENTS												
A												
MISC COMPONENTS LESS THAN \$500K												
A												
TOTAL P-1 LINE ITEM												
P-1 ITEM NO. 31												
PAGE NO. 113												
EXHIBIT P-5												
PAGE 1 OF 1												

UNCLASSIFIED									
BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT				P-1 ITEM NOMENCLATURE REPLENISHMENT SPARES					
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
COST (In Mil)	\$ 1.134	\$ 1.626	\$ .979	\$ 1.520	\$ 2.265	\$ 2.322	\$ 2.199		\$ 2.495

Replenishment Spares are repairable components, assemblies and subassemblies required for follow-on support of end items. Munitions replenishment spares requirements are based on item specific failure/demand driven computation.

P-1 SHOPP LIST ITEM NO. 33		PAGE NO. 114	
-------------------------------	--	-----------------	--

UNCLASSIFIED

### AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)

**UNCLASSIFIED**

**UNCLASSIFIED**

UNCLASSIFIED									
BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT			P-1 ITEM NOMENCLATURE				MODIFICATIONS		
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (In Mil)	\$ 3.340	\$ .650	\$ .149	\$ 0	\$ .688	\$ .710	\$ .802		\$ .948

Permanent modifications are configuration changes to in-service systems and equipment which correct material or other deficiencies, or which add or delete capability. Safety modifications correct deficiencies which would produce hazards to personnel, systems, or equipment. This budget line encompasses both new and on-going modification efforts for guided bombs and munitions systems. The following are modifications funded in FY96 through FY99:

MOD #	DESCRIPTION	PY	FY96	FY97	FY98	FY99
N/A	GBU-15 Container Mod	0	1.000	0	0	0
N/A	B61 MOD 11 Upgrade	0	1.867	0	0	0
N/A	Miscellaneous Low Cost Mods	.357	.473	.650	.149	0

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE		
APPROPRIATIONS/BUDGET ACTIVITY PAA/MUNITIONS AND RELATED EQUIPMENT		P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2,000,000 (OTHER ITEMS)						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Millions)	\$17.291	\$3.773	\$4.608	\$5.747	\$8.353	\$8.519	\$8.693	\$8.904
REMARKS								
1. THIS CATEGORY CONSISTS OF VARIOUS ITEMS INCLUDING BASE DEFENSE, RESCUE, EXPLOSIVE ORDNANCE DISPOSAL (EOD), AND OTHER ITEMS USED FOR AIRCREW AND GROUND TRAINING.								
2. ALL ITEMS ARE CODE A (APPROVED FOR SERVICE USE).								
P-1 SHOPP LIST ITEM NO. 35						PAGE NO. 117		

UNCLASSIFIED

**UNCLASSIFIED**  
**ITEMS LESS THAN \$2,000,000 (OTHER)**

NOMENCLATURE	DODIC	FY 98		FY 99	
		QTY	THOUSANDS\$	QTY	THOUSANDS\$
LUU-19 NEAR INFRARED(NIR)		750	621	750	570
HAND GRENADE SIMULATOR	L601	0	0	30000	110
PERSONAL DISTRESS SIGNAL	L119	0	0	6000	371
BOMB CONTAINMENT VESSEL		10	900	10	900
EOD DISRUPTER		8,750	132	0	0
ANDROS ROBOT		3	300	0	0
EOD TRAINING AIDS		50	785	0	0
ADVANCED RADIOLOGICAL SYSTEM		85	1,870	83	1826
THEATRE SECURE RECODE SYSTEM		0	0	N/A	1720
DOE TEST AND HANDLING EQUIPMENT		0	0	N/A	250
TOTAL			4,608		5,747



# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT		P-1 ITEM NOMENCLATURE JOINT PROGRAMMABLE FUZE (JPF)						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	324	1,170	1,906	2,014	2,226	2,748	11,895
COST (In Millions)	\$0	\$4.125	\$5.880	\$8.070	\$8.253	\$8.453	\$10.719	\$44.548
REMARKS								
<p>1. THE FMU-152/B JOINT PROGRAMMABLE FUZE (JPF) IS A JOINT AF/NAVY MULTI-FUNCTION UNITARY FUZE BEING DEVELOPED AND PROCURED FOR THE JOINT DIRECT ATTACK MUNITION (JDAM) AND OTHER CONVENTIONAL INVENTORY WEAPONS. THE FMU-152/B WILL PROVIDE A HIGHLY RELIABLE BOMB FUZE WITH MULTIPLE ARM TIMES, INSTANTANEOUS AND MULTIPLE SHORT AND LONG DELAY DETONATION TIMES, HARD TARGET SURVIVABILITY, COCKPIT PROGRAMMABILITY, AND INCREASED SERVICE/SHELF LIFE. THE JPF WILL PROVIDE BACKWARD COMPATIBILITY FOR MK-80 SERIES GUIDED AND UNGUIDED BOMBS. IT WILL REPLACE OR SUPPLEMENT DIFFERENT INVENTORY FUZES SUCH AS THE FMU-139, FMU-143, FMU-124, AND M904/M905, AND PROVIDE THE NEXT GENERATION OF FUZING CAPABILITY FOR HARD TARGET, GENERAL PURPOSE AND GUIDED BOMBS.</p> <p>PROGRAM IS CURRENTLY IN RESEARCH AND DEVELOPMENT (PE 64602F). DEVELOPMENT TEST AND EVALUATION (DT&amp;E) IS SCHEDULED FOR COMPLETION IN APRIL 1997; COMPLETION OF INITIAL OPERATIONAL TEST AND EVALUATION (IOT&amp;E) IS SCHEDULED FOR OCTOBER 1997; TECHNICAL DATA PACKAGE AND SERVICE USE APPROVAL IS SCHEDULED FOR NOVEMBER 1997.</p>								
		P-1 SHOPP LIST ITEM NO. 36		PAGE NO. 119				

UNCLASSIFIED

**AMMUNITION COST ANALYSIS**  
(DOLLARS IN THOUSANDS)

**UNCLASSIFIED**

**UNCLASSIFIED**

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT				C. P-1 ITEM NOMENCLATURE JOINT PROGRAMMABLE FUZE (JPF)							
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
<b>JOINT PROGRAMMABLE FUZE</b>											
FY 1997	MOTOROLA	SS/CPAF (OPTION)	AFMC/ASC	NOV 97	JUL 98	324	3,793	NO	YES	NOV 97	
FY 1998	MOTOROLA	SS/CPAF (OPTION)	AFMC/ASC	NOV 97	NOV 98	1170	3,050	NO	YES	NOV 97	
FY 1999	UNKNOWN	C/FFP	AFMC/ASC	NOV 98	NOV 99	1906	2,905	NO	YES	NOV 97	

<b>D. REMARKS</b>	
MOTOROLA IS LOCATED IN SCOTTSDALE, AZ. FY97 CONTRACT OPTION IS TO THE ENGINEERING AND MANUFACTURING DEVELOPMENT CONTRACT. UNIT COST REFLECTS HARDWARE PRICE ONLY.	
P-1 SHOPP LIST ITEM NO. 36	PAGE NO. 121
Exhibit P-5A	

UNCLASSIFIED

**UNCLASSIFIED**

[illegible]

**UNCLASSIFIED**

PAGE 1 OF 2 PAGES  
EXHIBIT P-21

PAGE 122  
NO.

P-1 SHOPPING LIST

ITEM NO.	36
----------	----

100



UNCLASSIFIED

BUDGET ITEM JUSTIFICATION  
(EXHIBIT P-40)DATE  
FEBRUARY 1997

APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT		P-1 ITEM NOMENCLATURE HARD TARGET SMART FUZE					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2003
QUANTITY	0	58	0	235	280	0	0
COST (in Millions)	\$0	\$2,000	\$0	\$7,931	\$7,917	\$0	\$0
REMARKS							

1. THE HARD TARGET SMART FUZE (HTSF) WILL PROVIDE A NEW CAPABILITY FOR CONVENTIONAL HARD TARGET WEAPONS. THE HTSF WILL BE A HARD TARGET VOID/LAYER COUNTING FUZE CAPABLE OF PROVIDING BURST POINT CONTROL NOT AVAILABLE ON CURRENT HARD TARGET FUZES. IT WILL INTERFACE WITH THE BLU-109 AND BLU-113 WARHEADS AND WILL BE COMPATIBLE WITH THE GBU-28 AND FUTURE HARD TARGET MUNITIONS.
2. PROGRAM IS CURRENTLY IN RESEARCH AND DEVELOPMENT(PE 64602). DEVELOPMENT TEST AND EVALUATION (DT&E) IS SCHEDULED FOR SEPTEMBER 1998; INITIAL OPERATIONAL TEST AND EVALUATION (IOT&E) IS SCHEDULED FOR JANUARY 1999; TECHNICAL DATA PACKAGE AND SERVICE USE APPROVAL IS SCHEDULED FOR MARCH 1999.
3. FY 97 QUANTITY DIFFERS FROM P-1 DUE TO UPDATED PRICING INFORMATION.

P-1 SHOPP  
LIST ITEM NO.  
37PAGE NO.  
124

UNCLASSIFIED

UNCLASSIFIED

AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)											
APPROPRIATION AND P-1 LINE ITEM			DATE: FEBRUARY 1997								
PAAF			HARD TARGET SMART FUZE (HTSF)								
ELEMENT OF COST	IDENT CODE	FY96		FY97		FY98		FY99		235	
		QTY	UNIT COST	TOTAL	QTY	UNIT COST	TOTAL	QTY	UNIT COST	TOTAL	TOTAL
<b>HARDWARE</b>	B										
HARD TARGET SMART FUZE					58	\$25,000.00	\$1,450			235	\$5,875
SUBTOTAL							\$1,450				\$5,875
<b>PRODUCTION SUPPORT</b>											
ECO/ECF							\$73				\$288
SYSTEM ENGR/PROG MGT							\$199				\$687
DATA							\$9				\$34
CONTRACTOR SUPPORT							\$59				\$231
OTHER							\$27				\$103
LAT							\$12				\$45
SUBTOTAL							\$379				\$1,388
<b>GOVT FURNISHED MATERIAL</b>											
COMMON MUN BIT REPROG EQUIP							\$158				\$621
FZU-55							\$12				\$44
CONTAINER							\$1				\$3
SUBTOTAL							\$171				\$668
<b>TOTAL P-1 LINE ITEM</b>					58	\$34,042.74	\$2,000			235	\$7,931
				P-1 ITEM NO. 37		PAGE NO. 125		EXHIBIT P-5 PAGE 1 OF 1			

UNCLASSIFIED



## UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE							
PAAF/MUNITIONS AND RELATED EQUIPMENT			HARD TARGET SMART FUZE (HTSF)							
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
<b>HARD TARGET SMART FUZE(HTSF)</b>										
FY 1997	MOTOROLA	SS/FPF (OPTION)	AFMC/ASC	APR 99	OCT 00	58	25,000	NO	YES	MAR 99
FY 1999	MOTOROLA	SS/FPF (OPTION)	AFMC/ASC	APR 99	OCT 00	235	25,000	NO	YES	MAR 99

  

<b>D. REMARKS</b>		P-1 SHOPP LIST ITEM NO. 37	PAGE NO. 126	Exhibit P-5A
MOTOROLA IS LOCATED IN SCOTTSDALE, AZ. UNIT COST REFLECTS HARDWARE PRICE ONLY.				

UNCLASSIFIED

UNCLASSIFIED

FY 98/99 BUDGET PRODUCTION SCHEDULE		P-1 ITEM NOMENCLATURE: HARD TARGET SMART FUZE		DATE: FEBRUARY 1997		L A T E R																									
		FISCAL YEAR 97		FISCAL YEAR 98		FISCAL YEAR 99																									
		CALENDAR YEAR 97		CALENDAR YEAR 98		CALENDAR YEAR 99																									
		OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP		OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP		OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP																									
ITEM/MFG PROCUREMENT YEAR	S E R V	PROC QTY	ACPT PRIOR 1-04	BAL DUE 1-04																											
MOTOROLA FY 97 AF	58	0	58				58																								
MOTOROLA FY 99 AF	235	0	235				235																								
TOTAL	293	0	293				293																								
MANUFACTURER'S NAME AND LOCATION	REMARKS:																														
MOTOROLA SCOTTSDALE, AZ	<table border="1"> <thead> <tr> <th colspan="2">PROD RATES</th> <th colspan="2">PROCUREMENT LEAD TIME</th> <th colspan="2">TOTAL AFTER 1 OCT</th> </tr> <tr> <th>MIN</th> <th>MAX</th> <th>ADMIN LEAD TIME</th> <th>MANUFACTURING TIME</th> <th>PR 1 OCT</th> <th>1 OCT</th> </tr> </thead> <tbody> <tr> <td>50</td> <td>200</td> <td></td> <td></td> <td>7</td> <td>18</td> </tr> <tr> <td></td> <td></td> <td>INITIAL</td> <td></td> <td></td> <td>25</td> </tr> </tbody> </table>							PROD RATES		PROCUREMENT LEAD TIME		TOTAL AFTER 1 OCT		MIN	MAX	ADMIN LEAD TIME	MANUFACTURING TIME	PR 1 OCT	1 OCT	50	200			7	18			INITIAL			25
PROD RATES		PROCUREMENT LEAD TIME		TOTAL AFTER 1 OCT																											
MIN	MAX	ADMIN LEAD TIME	MANUFACTURING TIME	PR 1 OCT	1 OCT																										
50	200			7	18																										
		INITIAL			25																										

PAGE 1 OF 2 PAGES  
EXHIBIT P-21PAGE  
NO. 127P-1 SHOPPING LIST  
ITEM NO. 37

UNCLASSIFIED



UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY PAAF/SMALL ARMS		P-1 ITEM NOMENCLATURE M-16 A2 RIFLE						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	0	0	0	0	0	0
COST (in Millions)	\$ 5.048 *	\$ 15.524	\$ 6.009	\$ 2.777	\$ 1.987	\$ 3.980	\$ 0	\$ 0
REMARKS								
<p>1. THE AIR FORCE'S CURRENT M-16A1 RIFLES ARE NEARLY 30 YEARS OLD. THE AGE OF THE WEAPONS AND NEED FOR REPAIR ARE CAUSING A MAINTENANCE BACKLOG. ADDITIONALLY, THE AIR FORCE IS BEGINNING TO USE THE NATO STANDARD 5.56MM AMMUNITION WHICH HAS BEEN ACCEPTED AS STANDARD ISSUE FOR ALL U. S. MILITARY SERVICES. THE NATO STANDARD 5.56MM IS FAR SUPERIOR TO THE CURRENT 5.56MM IN TERMS OF RANGE, ACCURACY, AND LETHALITY. YET, THE NATO 5.56MM IS NOT AS EFFECTIVE WHEN FIRED IN THE OLDER M-16A1 RIFLE. AS AN EXAMPLE, AN M-16A2 RIFLE USING THE NATO ROUND HAS A MAXIMUM EFFECTIVE RANGE THAT IS NEARLY DOUBLE OF THE M-16A1 USING THE SAME NATO ROUND. SECONDLY, THE CHANGE TO THE M-16A2 WILL REDUCE THE LOGISTICAL BURDEN CAUSED BY THE AIR FORCE BEING THE ONLY SERVICE USING THE M-16A1 RIFLE AND NON-NATO AMMUNITION.</p> <p>2. NO NEW RIFLES ARE BEING PROCURED. REQUESTED FUNDS WILL PROCURE KITS TO CONVERT M-16A1 RIFLES TO M-16A2 RIFLES. THE M-16A2 RIFLE RESEMBLES THE M-16A1 BUT HAS A NUMBER OF DIFFERENCES:</p> <p>A. IT CAN BE FIRED IN A SEMIAUTOMATIC AS WELL AS FULL AUTOMATIC (THREE ROUND BURST) MODE.</p> <p>B. THE RIFLE BARREL HAS A RIFLING TWIST THAT ENABLES IT TO FIRE THE NEW NATO STANDARD AMMUNITION AND THE NON-NATO AMMUNITION. ALSO, THE BARREL IS HEAVIER WHICH PROVIDES BETTER ACCURACY.</p> <p>C. THE RIFLE IS FITTED WITH A NEW REAR SIGHT, WHICH INCORPORATES ADJUSTMENTS FOR BOTH WINDAGE AND ELEVATION. A CARTRIDGE CASE DEFLECTOR ON THE RIGHT SIDE OF THE RECEIVER DEFLECTS EJECTED CARTRIDGES TO PRECLUDE THE POSSIBILITY OF THE EJECTED CARTRIDGES HITTING THE FACE OF THE LEFT-HANDED SHOOTER.</p> <p>D. A REDESIGNED HANDGUARD, USING TWO IDENTICAL HALVES, WITH A ROUND CONTOUR IS STURDIER AND PROVIDES A BETTER GRIP WHEN HOLDING THE RIFLE.</p> <p>E. A NEW BUTTSTOCK AND PISTOL GRIP MADE OF A TOUGHER MOLDABLE PLASTIC PROVIDES BETTER RESISTANCE TO BREAKAGE.</p> <p>* FY96 FUNDING IS CONTAINED IN APPROPRIATION 3020, MISSILE PROCUREMENT, AIR FORCE (MPAF) AND IS REFLECTED HERE FOR CONTINUITY.</p>								

P-1 SHOPP LIST ITEM NO. 38	PAGE NO. 129
----------------------------------	-----------------

UNCLASSIFIED

UNCLASSIFIED

## AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)

## APPROPRIATION AND P-1 LINE ITEM

M-16 A2 RIFLE

DATE: FEBRUARY 1997

ELEMENT OF COST	IDENT CODE	FY96		FY97		FY98		FY99		FY00		FY01	
		QTY	UNIT COST	TOTAL	QTY	UNIT COST	TOTAL	QTY	UNIT COST	TOTAL	QTY	UNIT COST	TOTAL
HARDWARE	A	22465	\$211.00	\$4,740	56214	\$264.79	\$14,885	21760	\$264.79	\$5,762	10057	\$264.79	\$2,663
		1091	\$264.79	\$289									
SUBTOTAL				\$5,029			\$14,885			\$5,762			\$2,663
PRODUCTION SUPPORT													
ARMY ENGINEERING SUPPORT				\$0			\$550			\$213			\$98
QUALITY ASSURANCE				\$0			\$45			\$17			\$8
TESTING				\$19			\$44			\$17			\$8
SUBTOTAL				\$19			\$639			\$247			\$114
TOTAL P1 LINE ITEM		23556	\$214.29	\$5,048	56214	\$276.16	\$15,524	21760	\$276.16	\$6,009	10057	\$276.16	\$2,777

NOTE: FY 96 FUNDING SPLIT BETWEEN TWO CONTRACTS. \$4,759 MILLION WILL BE APPLIED TO THE MAXIMUM EXTENT POSSIBLE AGAINST A PREVIOUS OPTION. THE REMAINING \$,289 MILLION WILL BE COMBINED WITH FY 97 FUNDING FOR NEW CONTRACT AWARD.

EXHIBIT P-5  
PAGE 1 OF 1PAGE NO.  
130P-1 ITEM NO.  
38

UNCLASSIFIED

# UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING(P-5A)

BUDGET PROCUREMENT HISTORY PLANNING(P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE							
PAAF/SMALL ARMS				M-16 A2 RIFLE							
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

### M-16 A2 CONVERSION KIT

FY 1994@ #	CAPCO INC*	C/FP	ARMY/AMCCOM (AFMC/NR-ALC)	SEP 95	FEB 97	17,248	237.25			
FY 1995 #	CAPCO INC*	C/FP	ARMY/AMCCOM (AFMC/NR-ALC)	SEP 95	OCT 97	3,515	237.25			
FY 1996 AS	CAPCO INC*	C/FP (OPTION)	ARMY/AMCCOM (AFMC/NR-ALC)	FEB 97	DEC 97	22,465	211.00	YES	NO	
FY 1996 AS	UNKNOWN	C/FP	ARMY/AMCCOM (AFMC/NR-ALC)	SEP 97	JUL 98	1091	264.79	YES	NO	
FY 1997 &	UNKNOWN	C/FP	ARMY/AMCCOM (AFMC/NR-ALC)	SEP 97	JUL 98	56,214	264.79	YES	NO	
FY 1998 &	UNKNOWN	C/FP (OPTION)	ARMY/AMCCOM (AFMC/NR-ALC)	FEB 98	JUL 99	21,760	264.79	YES	NO	
FY 1999 &	UNKNOWN	C/FP	ARMY/AMCCOM (AFMC/NR-ALC)	SEP 99	JUL 00	10,057	264.79	YES	NO	

### D. REMARKS

@ FIRST TIME BUY FOR THE CONVERSION KIT.  
 # FY 94 AND FY 95 CONTRACTS COMBINED. DELIVERIES DELAYED DUE TO PROBLEMS WITH FIRST ARTICLE TESTING.  
 \*CAPCO INC LOCATED IN GRAND JUNCTION, CO.  
 ^ FY 96 CONTRACT AWARD DELAYED DUE TO CONTRACT PROTEST BY COLT MANUFACTURING.  
 \$ FY 96 FUNDING SPLIT BETWEEN TWO CONTRACTS. \$4.759 MILLION WILL BE APPLIED TO THE MAXIMUM EXTENT POSSIBLE AGAINST A PREVIOUS OPTION. THE REMAINING \$.289 MILLION WILL BE COMBINED WITH FY 97 FUNDING FOR NEW CONTRACT AWARD.  
 & FY 97- FY 99 PRICING BASED ON PRICE QUOTE FROM HQ ACALA, DATED MAY 96.  
 PRICES REFLECT HARDWARE COSTS ONLY.

P-1 SHOPP LIST ITEM NO. 38	PAGE NO. 131	Exhibit P-5A
-------------------------------	--------------	--------------

# UNCLASSIFIED



**UNCLASSIFIED**

[illegible]

**UNCLASSIFIED**





UNCLASSIFIED

REQUIREMENTS STUDY - NOT INSTALLED NONCONSUMABLES							FEBRUARY 1997		
APPROPRIATION/BUDGET ACTIVITY PAAAF/SMALL ARMS							P-1 ITEM NOMENCLATURE M-16 A2 RIFLE		
ITEM	TOTAL I/O REQUIREMENT	QUANTITY ON HAND & IN USE	QUANTITY IN USE	QUANTITY DUE IN WITH FY 96 & PRIOR FUNDS	QUANTITY DUE IN WITH FY 97 PROGRAM FUNDS	PLANNED BUDGET YEAR (FY 98) PROCUREMENT	PLANNED BUDGET YEAR (FY 99) PROCUREMENT	BALANCE	PHASING RATIONALE
M-16 A2 RIFLE CONVERSION KIT	220,225	0	0	44,319	56,214	21,760	10,057	87,875	
MEMO ENTRIES									
ITEM #1 MAJCOMS/AGENCIES(22)- AFSOC AFRES ANG	ITEM #2	ITEM #3	ITEM #4	ITEM #5	ITEM #6	ITEM #7	ITEM #8	ITEM #9	ITEM #10
114620 -3954 -32911 -68740									

EXHIBIT P-23b

 P-1 SHOPP LIST  
 ITEM NO. 38  
 PAGE NO. 134

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY PAAF/SMALL ARMS		P-1 ITEM NOMENCLATURE 9MM COMPACT PISTOL								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	113	280	0	0	0	0	0		
COST (in Millions)	\$0	\$0.073	\$0.183	\$0	\$0	\$0	\$0	\$0	\$0	
REMARKS										
<p>1. THE 9MM COMPACT PISTOL IS A SEMI-AUTOMATIC, MAGAZINE-FED PISTOL USED AS A CONCEALABLE WEAPON AND CARRIED IN A HOLSTER BENEATH CIVILIAN CLOTHING BY THE AIR FORCE OFFICE OF SPECIAL INVESTIGATIONS (OSI) PERSONNEL. IT WILL REPLACE ALL COMPACT .45 CALIBER PISTOLS CURRENTLY USED BY THESE PERSONNEL. EVALUATIONS OF THE STANDARD 9MM PISTOL INDICATED IT IS TOO LARGE TO BE USED AS A CONCEALABLE WEAPON. THE COMPACT PISTOL WILL FUNCTION WITH THE SAME AMMUNITION AS THE FULL-SIZED 9MM PISTOL BUT ITS WEIGHT, LENGTH, HEIGHT, AND WIDTH WILL DIFFER.</p> <p>2. FY 98 QUANTITY DIFFERS FROM P-1 ENTRY DUE TO UPDATED COST ESTIMATES.</p>										
P-1 SHOPP LIST ITEM NO. 39		PAGE NO. 135								

UNCLASSIFIED

**UNCLASSIFIED**

**AMMUNITION COST ANALYSIS**  
(DOLLARS IN THOUSANDS)

APPROPRIATION AND P-1 LINE ITEM										DATE: FEBRUARY 1997			
PAAF													
9MM COMPACT PISTOL													
ELEMENT OF COST													
IDENT CODE	FY96		FY97		FY98		FY99		QTY: 0				
	QTY	UNIT COST	TOTAL	QTY	UNIT COST	TOTAL	QTY	UNIT COST	TOTAL	QTY: 0			
A													
				113	\$610.00	\$69	280	\$625.00	\$175				
						\$69			\$175				
						\$2			\$4				
						\$2			\$4				
						\$4			\$8				
				113	\$640.44	\$73	280	\$653.57	\$183				
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													
TOTAL P1 LINE ITEM													
SUBTOTAL													

**UNCLASSIFIED**

# UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING(P-5A)

A. DATE  
FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE								
PAAF/SMALL ARMS		9MM COMPACT PISTOL								
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

### 9MM COMPACT PISTOL

FY 1997@

FY 1998@ #

SIGARMS

SS/FP  
(OPTION)\*

ARMY/AMCCOM  
(AFMC/NR-ALC)

FEB 97

113

640.44

SIGARMS

SS/FP

ARMY/AMCCOM  
(AFMC/NR-ALC)

MAR 98

OCT 98

280

653.57

YES

NO

### D. REMARKS

@ SIGARMS IS LOCATED IN EXETER, NH.

\* OPTION IS TO AN EXISTING FY 96 CONTRACT FOR NAVY REQUIREMENTS.

# SOLE SOURCE JUSTIFICATION BASED ON NECESSITY TO KEEP ALL AF INVENTORY 9MM COMPACT PISTOLS STANDARD.

P-1 SHOPP LIST  
ITEM NO. 39

PAGE NO. 137

Exhibit P-5A

# UNCLASSIFIED

**UNCLASSIFIED**

[illegible]

**UNCLASSIFIED**

UNCLASSIFIED

REQUIREMENTS STUDY - NOT INSTALLED NONCONSUMABLES								FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY PAAF/SMALL ARMS		P-1 ITEM NOMENCLATURE 9MM COMPACT PISTOL							
ITEM	TOTAL I/O REQUIREMENT	QUANTITY ON HAND & IN USE	QUANTITY IN USE	QUANTITY DUE IN WITH FY 96 & PRIOR FUNDS	QUANTITY DUE IN WITH FY 97 PROGRAM FUNDS	PLANNED BUDGET YEAR PROCUREMENT	BALANCE	PHASING RATIONALE	
9MM COMPACT PISTOL	993	0	600	0	113	280	0		
MEMO ENTRIES									
ITEM #1 OSI UNITS - 993	ITEM #2	ITEM #3	ITEM #4	ITEM #5					
ITEM #6	ITEM #7	ITEM #8	ITEM #9	ITEM #10					

 P-1 SHOPP LIST  
 ITEM NO. 39

PAGE NO. 139

EXHIBIT P-23b

UNCLASSIFIED



UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY PAAF/SMALL ARMS				P-1 ITEM NOMENCLATURE M-9 PISTOL						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	2265	0	0	0	0	0	0	
COST (in Millions)	\$0	\$0	\$1.127	\$0	\$0	\$0	\$0	\$0	\$0	
REMARKS										
<p>1. THE M-9 PISTOL IS A 9MM NATO, SEMI-AUTOMATIC PISTOL THAT NORMALLY FUNCTIONS SINGLE ACTION BUT HAS DOUBLE ACTION CAPABILITY FOR THE FIRST SHOT. THE WEAPON IS CAPABLE OF BEING FIRED BY EITHER LEFT OR RIGHT HANDED SHOOTERS. THE MAGAZINE HAS A MINIMUM OF 15 ROUNDS. THE PISTOL IS COMPATIBLE WITH PARTS AND AMMUNITION WITH ALLIED SERVICES.</p> <p>2. THE M-9 PISTOL IS A STANDARD REPLACEMENT WEAPON FOR THE .45 CALIBER PISTOL AND VARIOUS .38 CALIBER REVOLVERS. THE WEAPON IS ISSUED TO LAW ENFORCEMENT PERSONNEL, AVIATORS, AND GENERAL OFFICERS AS A PERSONAL DEFENSE WEAPON.</p>										
P-1 SHOPP LIST ITEM NO. 40				PAGE NO. 140						

UNCLASSIFIED

**UNCLASSIFIED**

**AMMUNITION COST ANALYSIS**  
(DOLLARS IN THOUSANDS)

AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)															
APPROPRIATION AND P-1 LINE ITEM PAAF										DATE: FEBRUARY 1997					
ELEMENT OF COST										M-9 PISTOL					
IDENT CODE	FY96		FY97		FY98		FY99		FY00						
	QTY	UNIT COST	TOTAL	QTY	UNIT COST	TOTAL	QTY	UNIT COST	TOTAL	QTY	UNIT COST	TOTAL			
A	HARDWARE														
	M-9 PISTOL														
	SUBTOTAL														
	PRODUCTION SUPPORT														
ARMY ENGINEERING SUPPORT															
QUALITY ASSURANCE															
SUBTOTAL															
TOTAL P1 LINE ITEM															
										P-1 ITEM NO. 40		PAGE NO. 141		EXHIBIT P-5 PAGE 1 OF 1	

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING(P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE							
PAAF/SMALL ARMS			M-9 PISTOL							
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

<b>M-9 PISTOL</b>										
FY 1989@	BERETTA USA	SS/FP (OPTION)	ARMY/AMCCOM (AFMC/WIR-ALC)	MAY 89	AUG 93	9000	231.05			
FY 1998#	BERETTA USA	SS/FP (OPTION)	ARMY/AMCCOM (AFMC/WIR-ALC)	FEB 98	OCT 98	2265	497.57	YES	NO	

<b>D. REMARKS</b>		
@ BERETTA USA CORP IS LOCATED IN ACCOKEEK, MD. # FY 98 CONTRACT IS PLANNED AS AN OPTION TO AN EXISTING FY 95 ARMY CONTRACT. PRICE IS BASED ON THE FY 95 CONTRACT.		
P-1 SHOPP LIST ITEM NO. 40	PAGE NO. 142	Exhibit P-5A

# UNCLASSIFIED



UNCLASSIFIED

REQUIREMENTS STUDY - NOT INSTALLED NONCONSUMABLES								FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY PAAAF/MUNITIONS AND RELATED EQUIPMENT				P-1 ITEM NOMENCLATURE M-9 PISTOL				
ITEM	TOTAL I/O REQUIREMENT	QUANTITY ON HAND & IN USE	QUANTITY IN USE	QUANTITY DUE IN WITH FY 96 & PRIOR FUNDS	QUANTITY DUE IN WITH FY 97 PROGRAM FUNDS	PLANNED BUDGET YEAR PROCUREMENT	BALANCE	PHASING RATIONALE
M-9 PISTOL	85,380	0	83,115	0	0	2,265	0	
MEMO ENTRIES								
ITEM #1 MAJCOMS/AGENCIES - 51,237 AFSOC - 3,050 ANG - 19,964 AFR - 11,129	ITEM #2	ITEM #3	ITEM #4		ITEM #5			
ITEM #6	ITEM #7	ITEM #8	ITEM #9		ITEM #10			

EXHIBIT P-23b

 P-1 SHOPP LIST PAGE NO.  
 ITEM NO. 40 144

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY PAAF/SMALL ARMS		P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2,000,000 (SMALL ARMS)					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002 FY 2003
QUANTITY							
COST (in Millions)	\$0	\$0.607	\$0.858	\$0.022	\$0	\$0	\$0
REMARKS							
<p>1. THIS CATEGORY CONSISTS OF VARIOUS WEAPONS ITEMS USED FOR BASE DEFENSE AND GROUND CREW TRAINING.</p> <p>2. SPECIFIC FY 98 AND FY 99 ITEMS ARE LISTED ON THE NEXT PAGE.</p> <p>3. ALL ITEMS ARE CODE A (APPROVED FOR SERVICE USE).</p>							
		P-1 SHOPP LIST ITEM NO. 41		PAGE NO. 145			

UNCLASSIFIED

**UNCLASSIFIED**  
**ITEMS LESS THAN \$2,000,000 (SMALL ARMS)**

NOMENCLATURE	DODIC	<u>FY 98</u>		<u>FY 99</u>	
		QTY	THOUSANDS\$	QTY	THOUSANDS\$
PEPPER SPRAY	KM01	996	21	996	22
SET, BALLISTIC MORTAR		13	117	0	0
MOUNT, TRIPOD, M122		448	284	0	0
M16 CONTAINER		372	144	0	0
NIGHT VISION SIGHTS		130	292	0	0
TOTAL			858		22